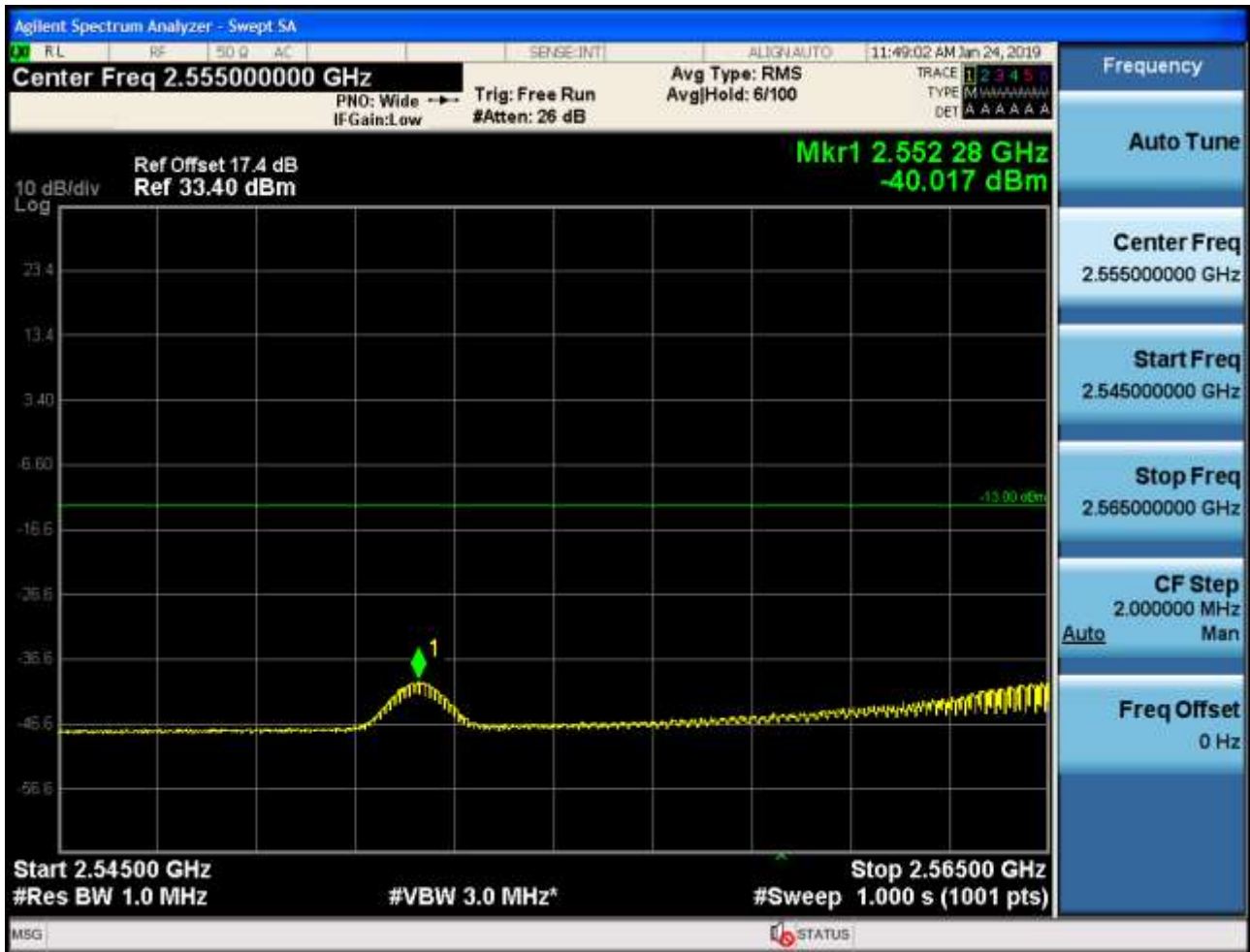




## 5.1.1.2.2 Test Bandwidth = 20+20

## 5.1.1.2.2.1 Test Channel = LCH

## 5.1.1.2.2.1.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0

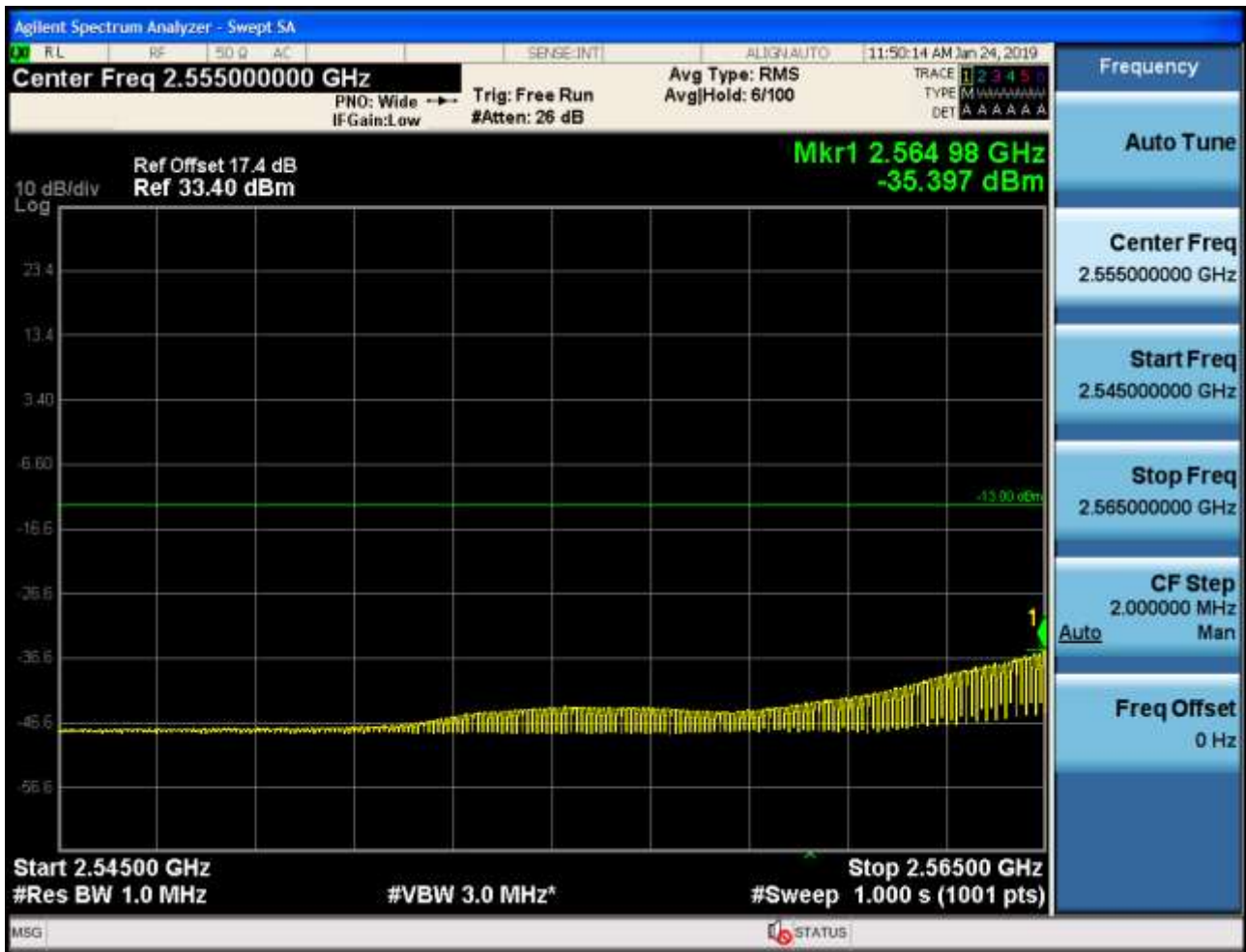








5.1.1.2.2.1.2 PCC Test RB = partial RBs #0 & SCC Test RB = 0









## 5.1.1.2.2.1.3 PCC Test RB = full RBs &amp; SCC Test RB = 0



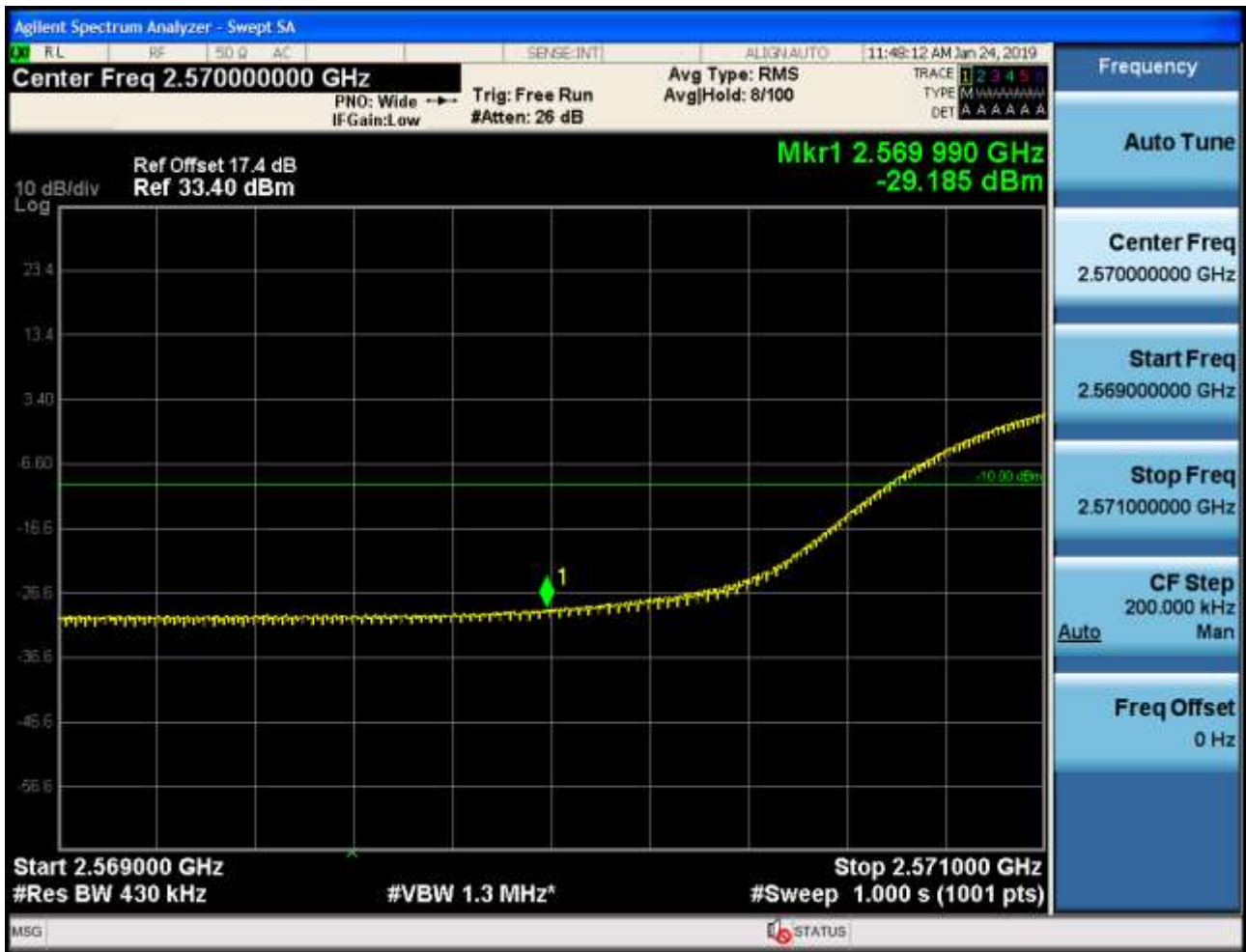










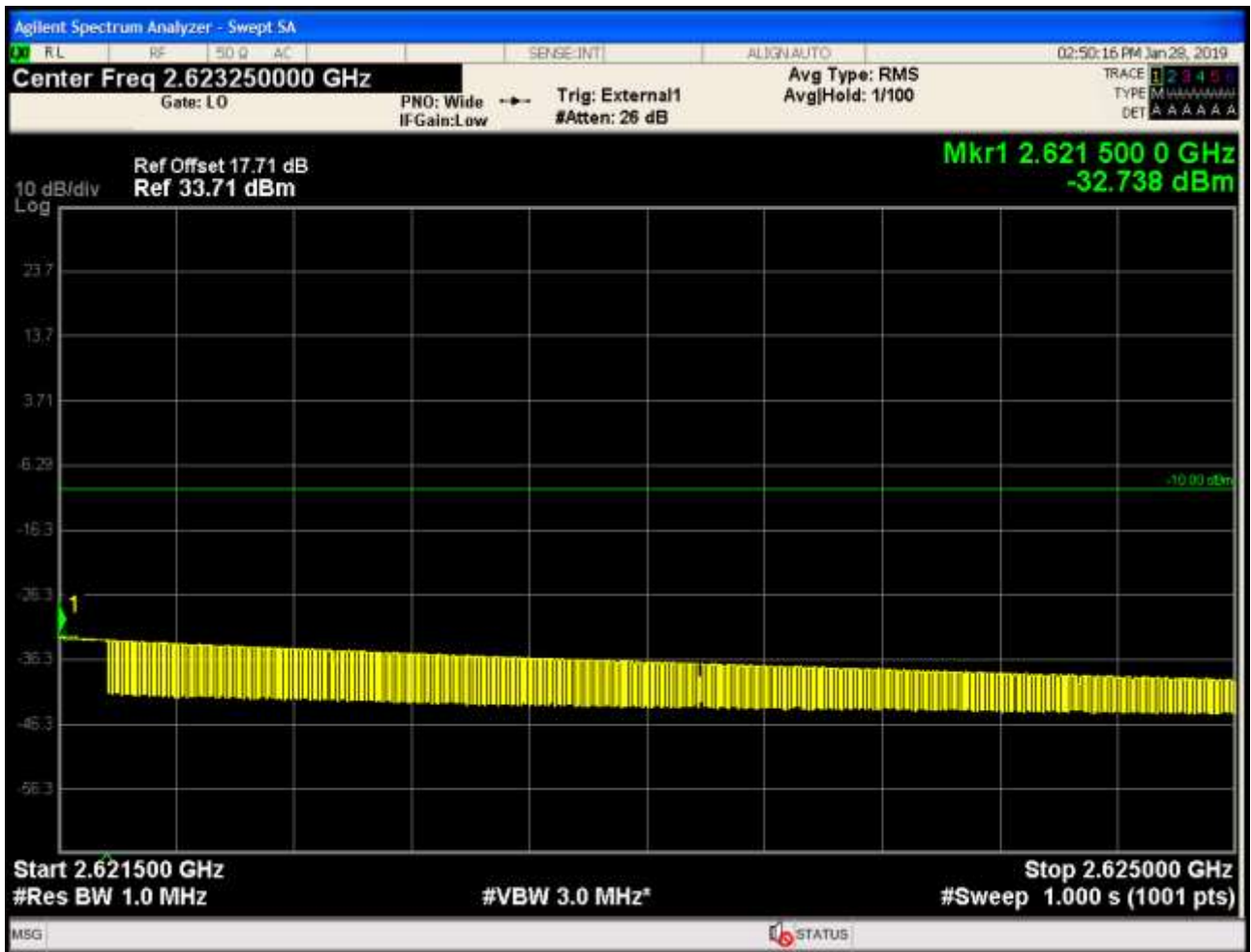


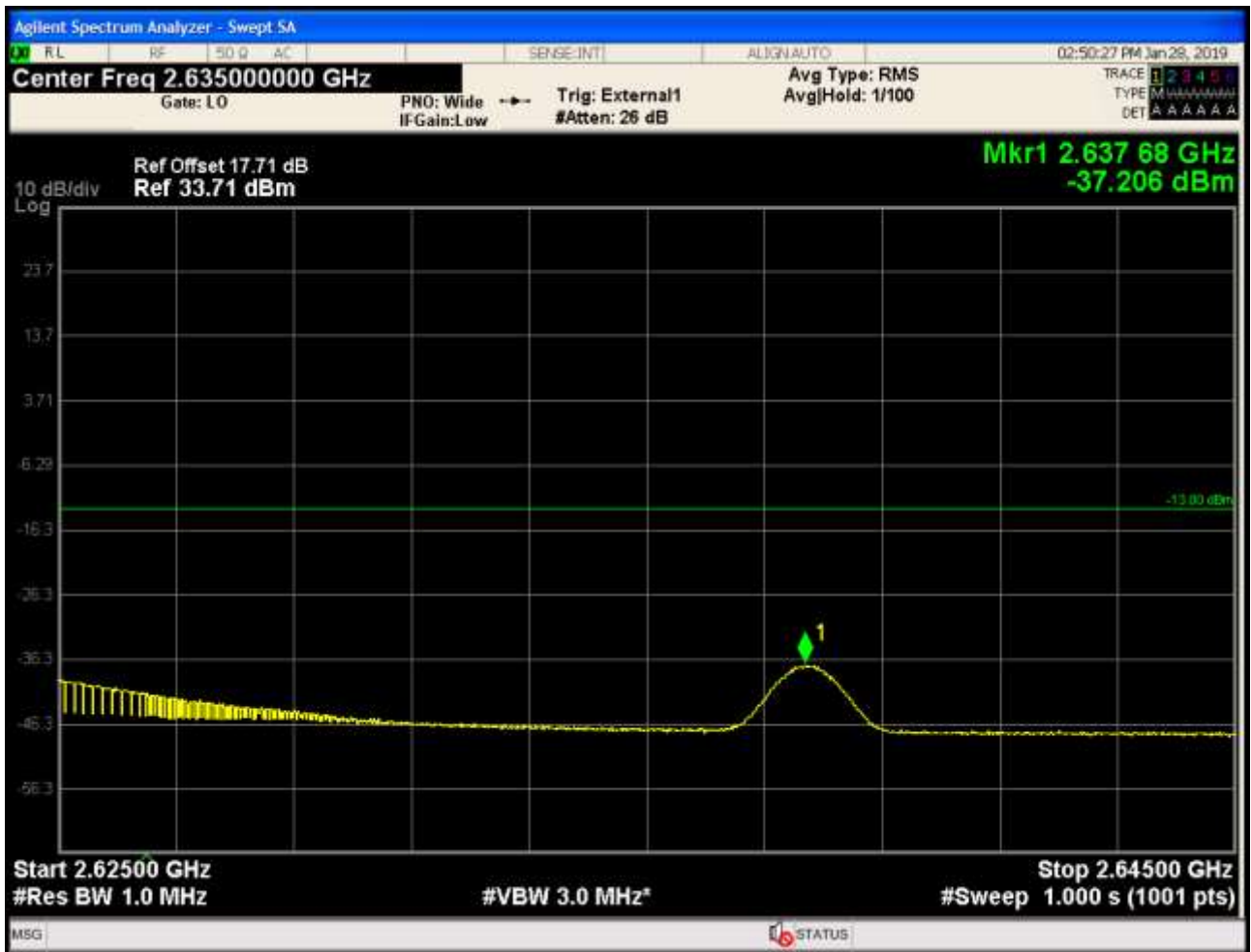
## 5.1.1.2.2.2 Test Channel = HCH

## 5.1.1.2.2.2.1 PCC Test RB = 0 &amp; SCC Test RB = 1 # max









## 5.1.1.2.2.2 PCC Test RB = 0 &amp; SCC Test RB = partial RBs #max







## 5.1.1.2.2.3 PCC Test RB = 0 &amp; SCC Test RB = full RBs



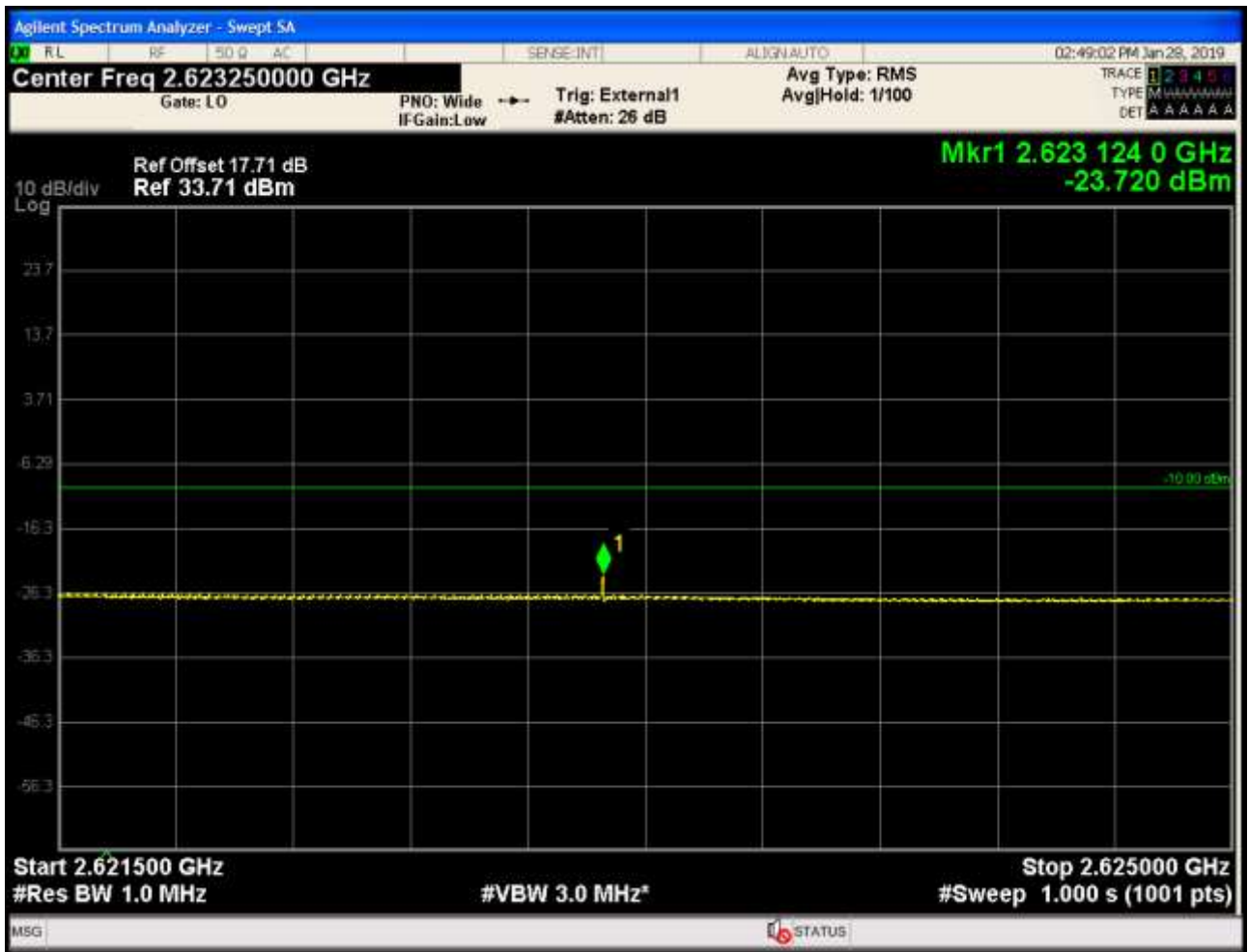






## 5.1.1.2.2.4 PCC Test RB = full RBs &amp; SCC Test RB = full RBs







## 6Appendix\_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

### Part I - Test Plots

#### 6.1 For LTE

##### 6.1.1 Test Band = CA\_38C

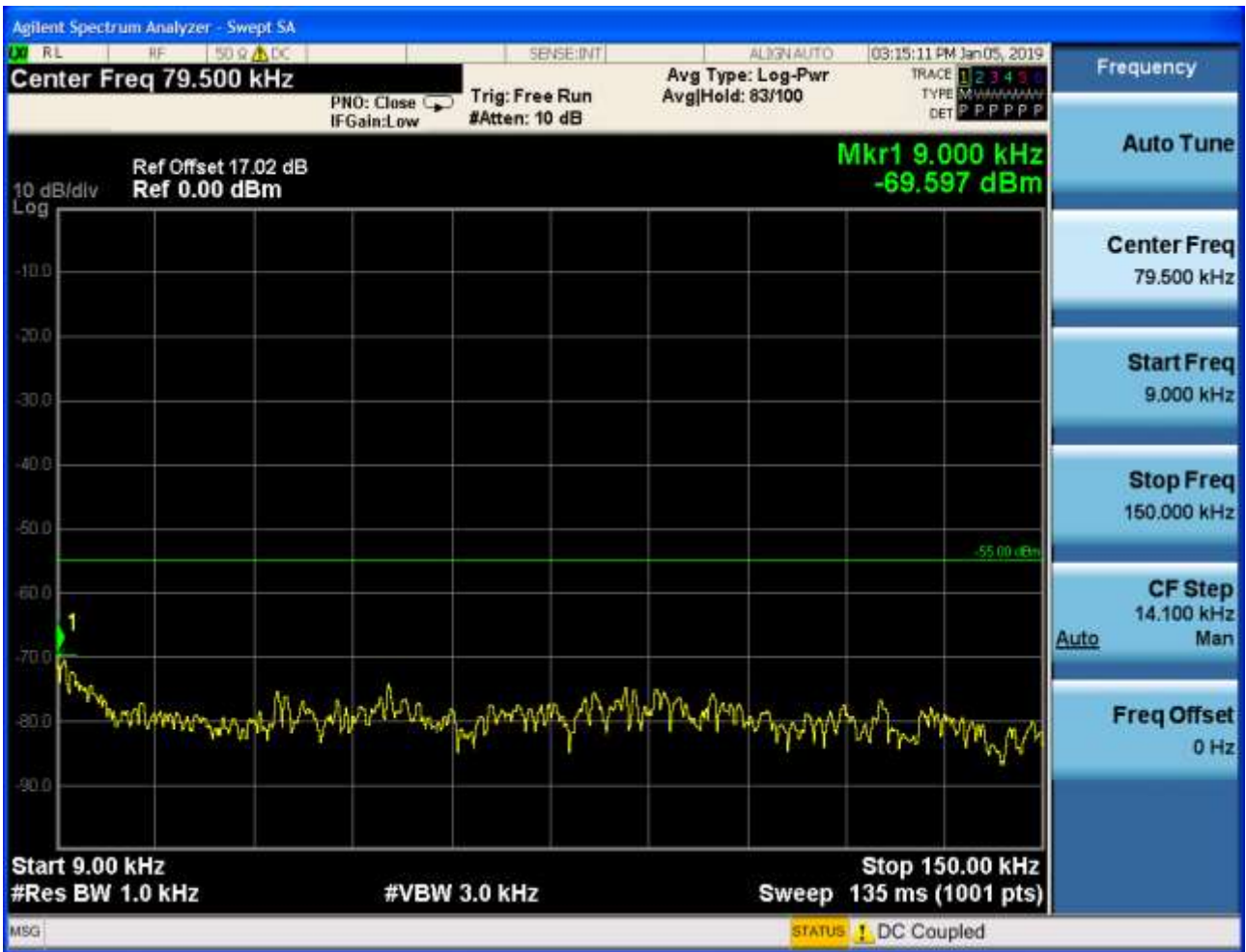
##### 6.1.1.1 Test Mode = LTE/TM1

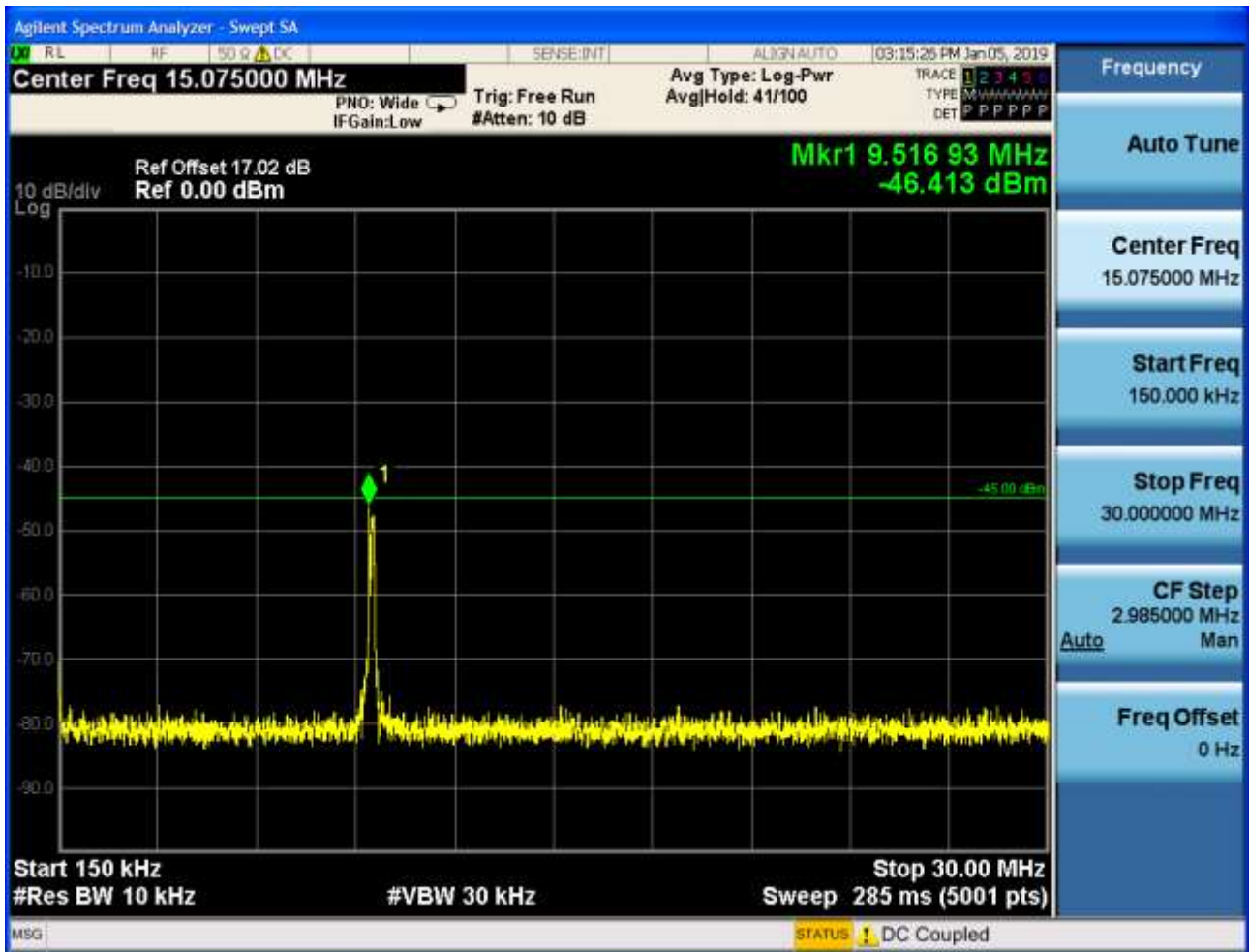
##### 6.1.1.1.1 Test Bandwidth = 15MHz+15MHz

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0





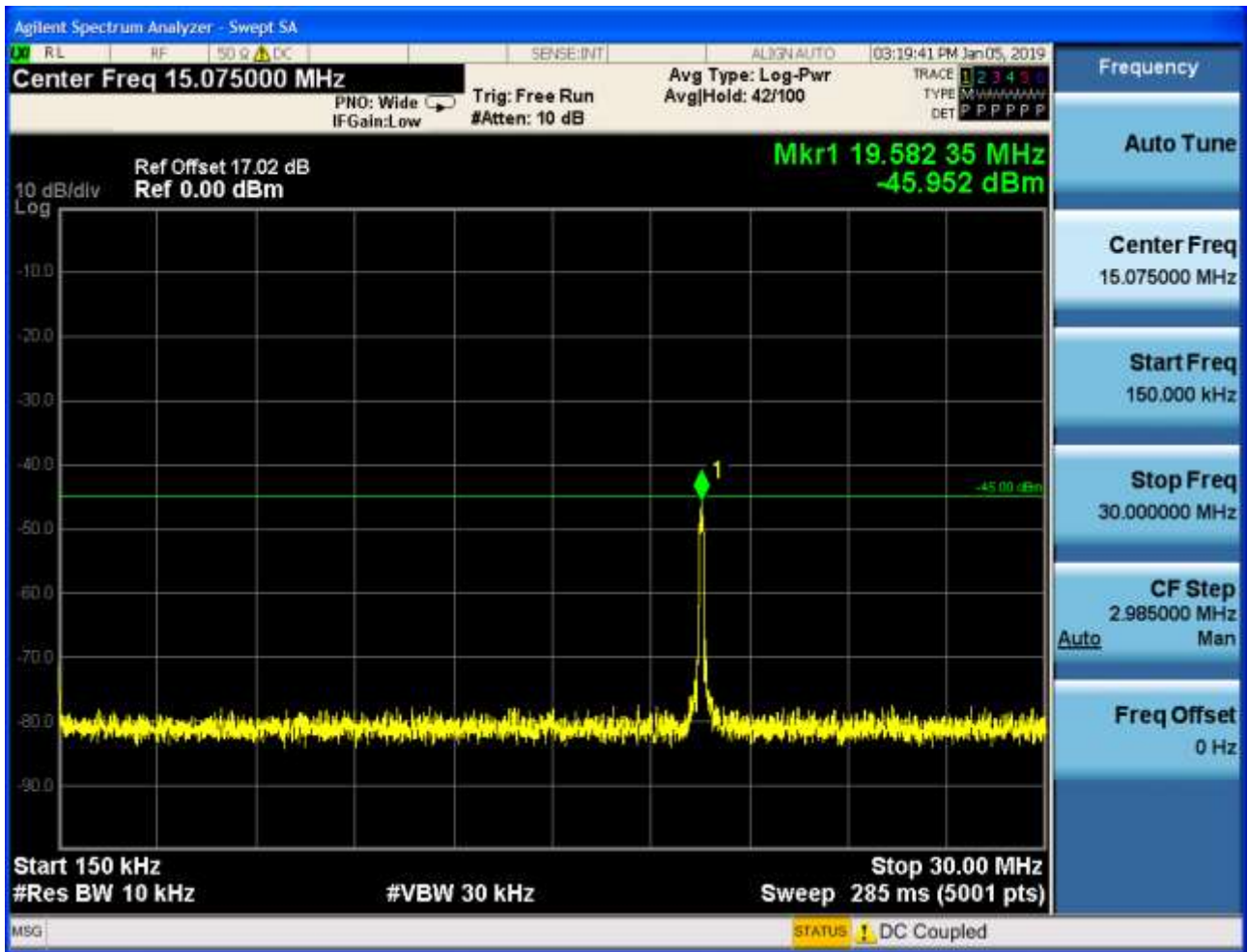




## 6.1.1.1.1.2 Test Channel = MCH

## 6.1.1.1.1.2.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0



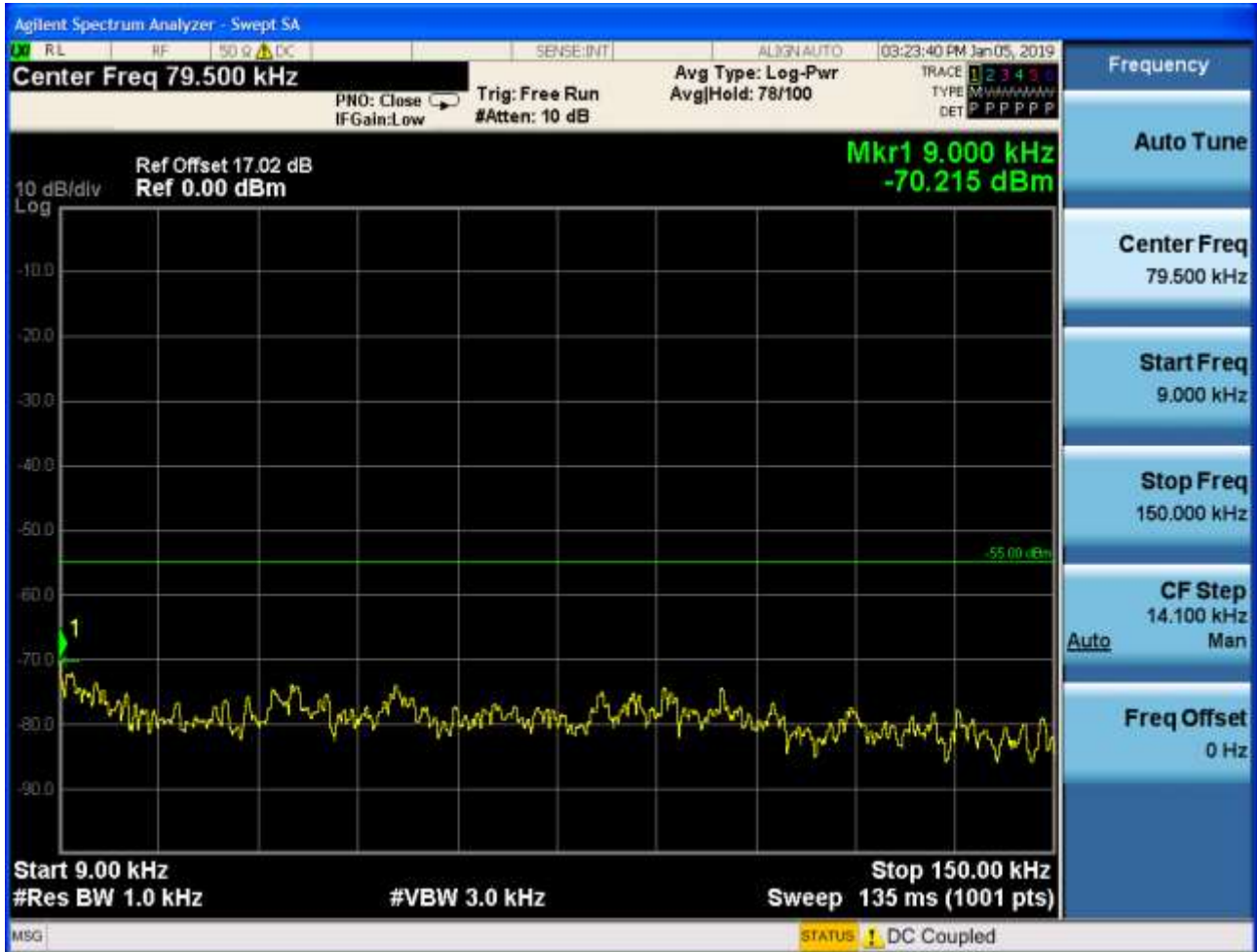


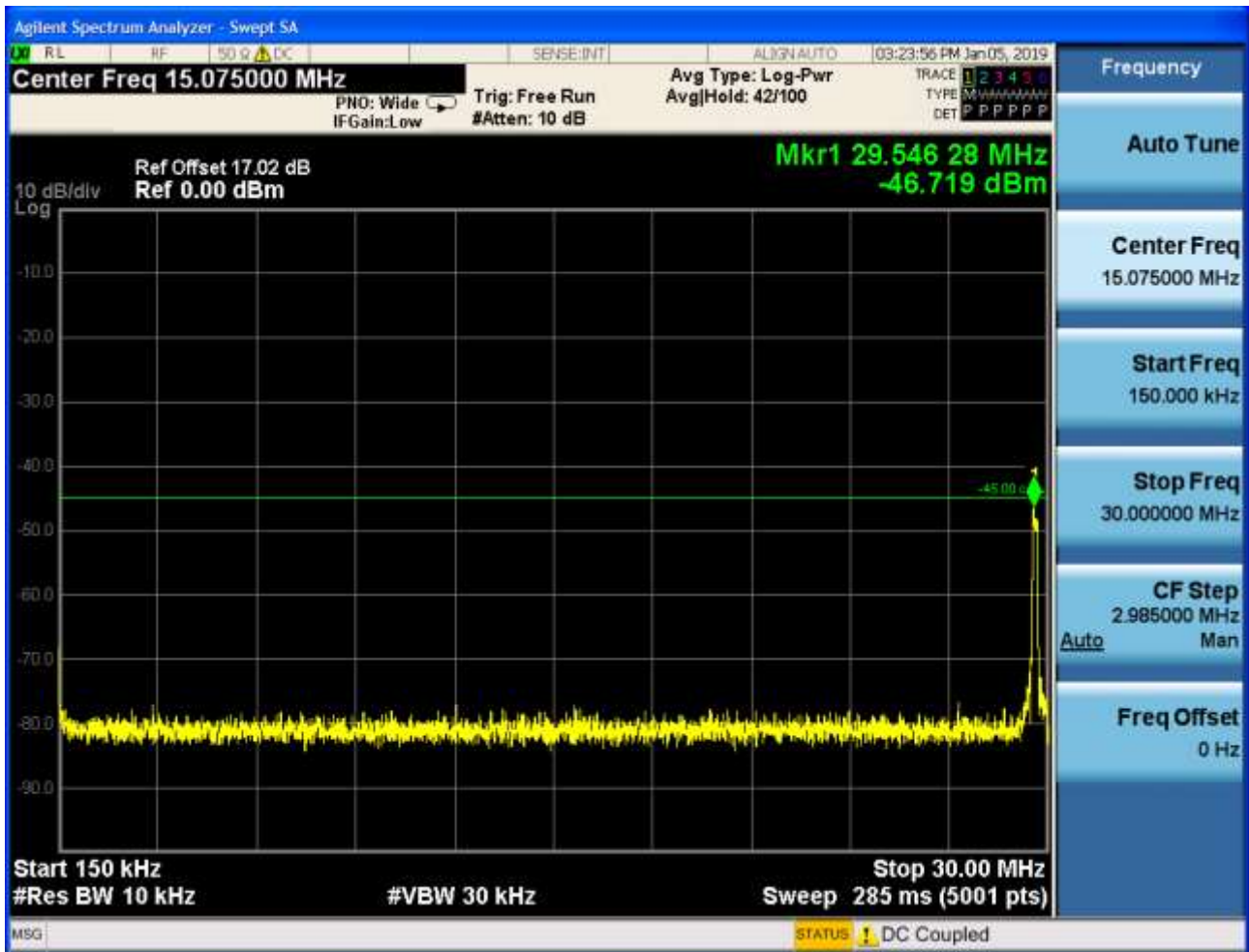




## 6.1.1.1.1.3 Test Channel = HCH

## 6.1.1.1.1.3.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0



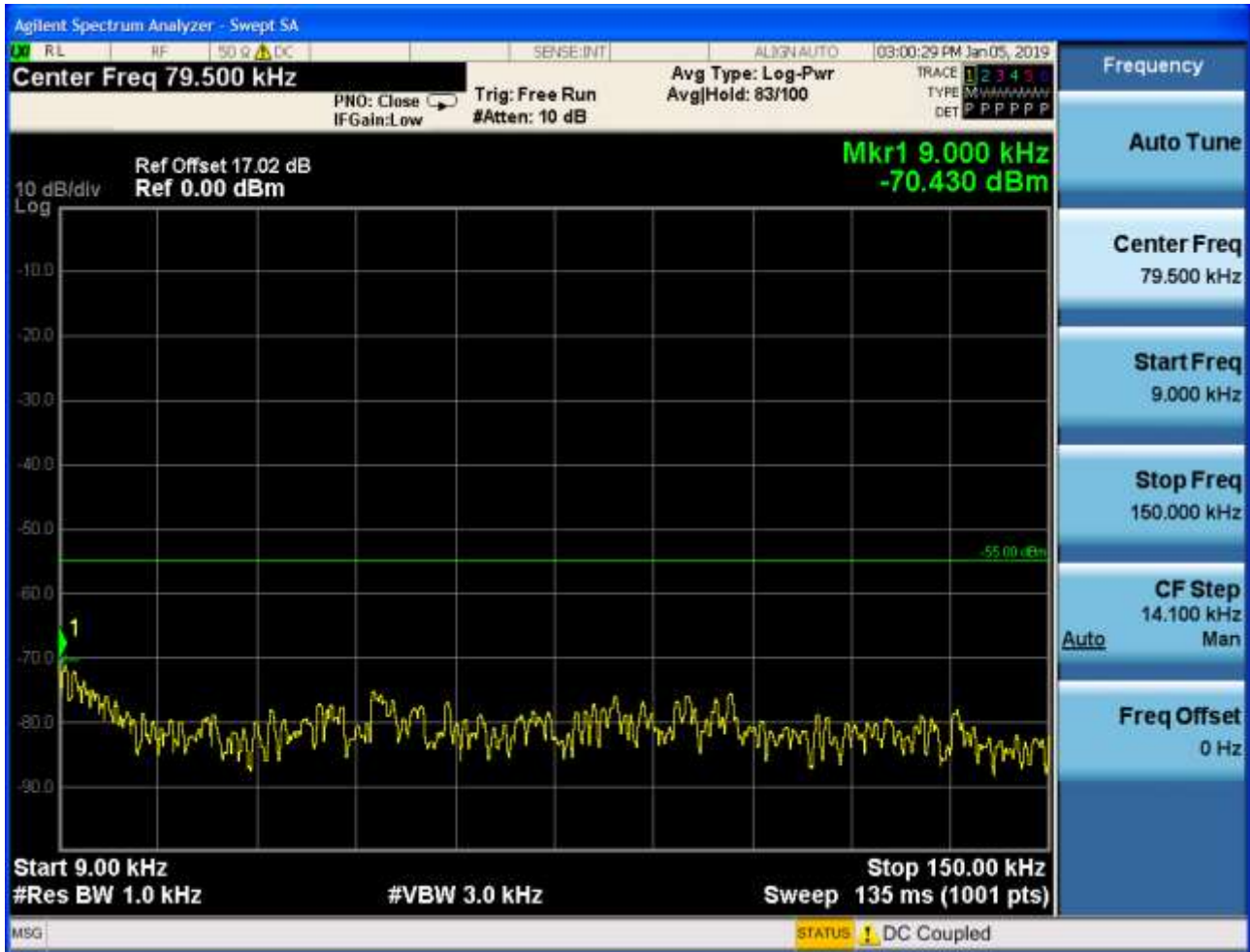


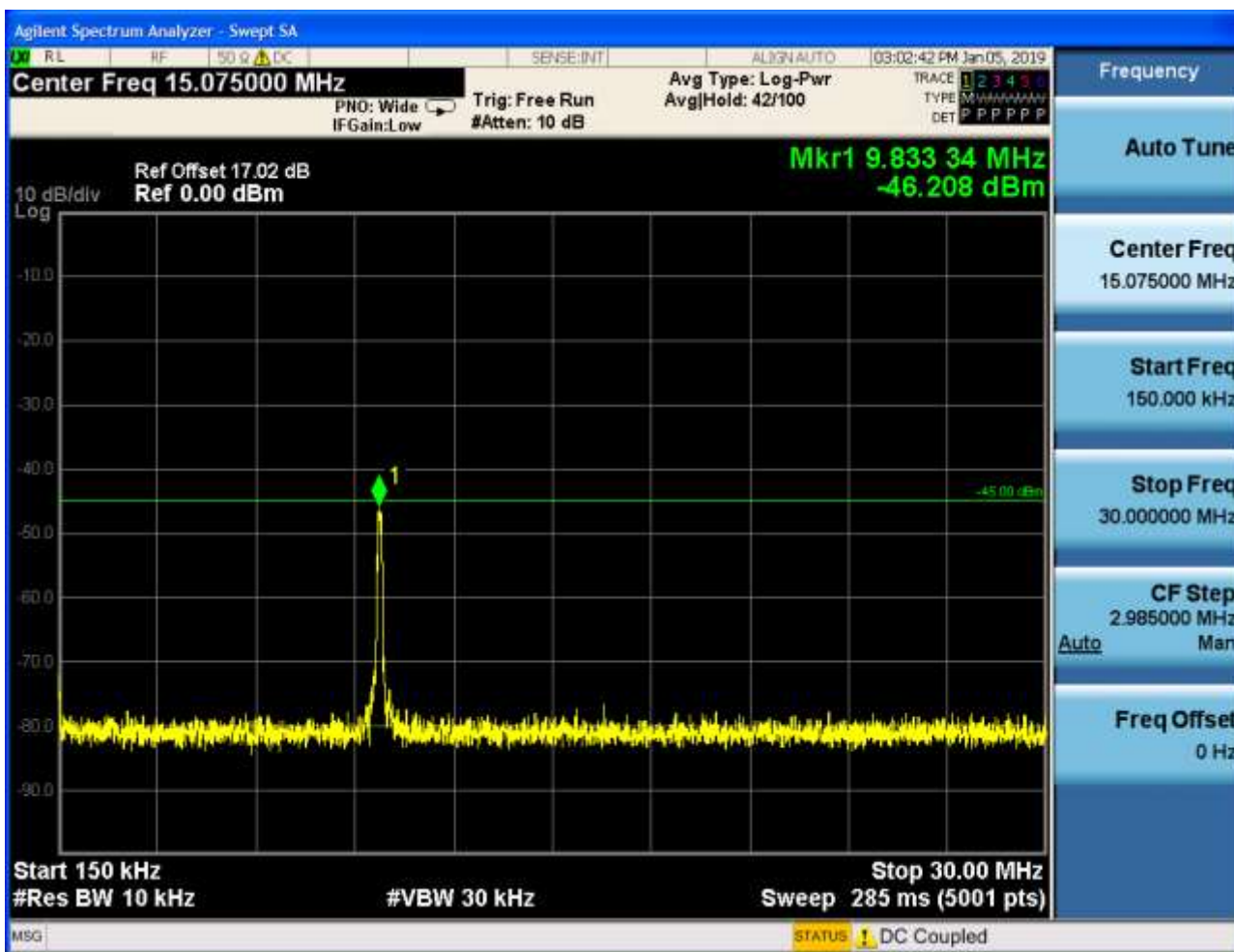


### 6.2.1.1.2 Test Bandwidth = 20MHz+20MHz

#### 6.2.1.1.2.1 Test Channel = LCH

#### 6.1.1.1.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







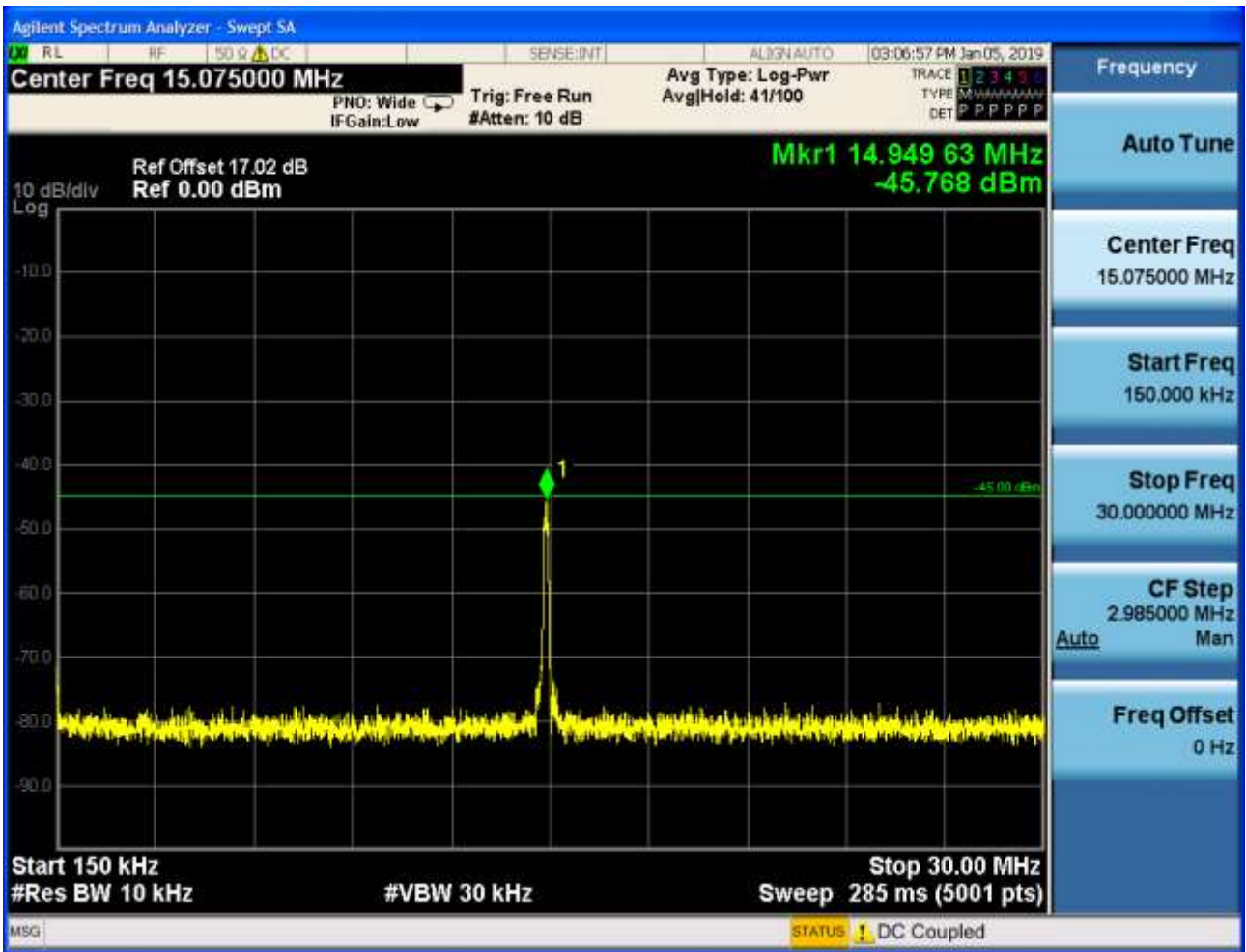


## 6.2.1.1.2.2 Test Channel = MCH

## 6.1.1.1.2.2.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0



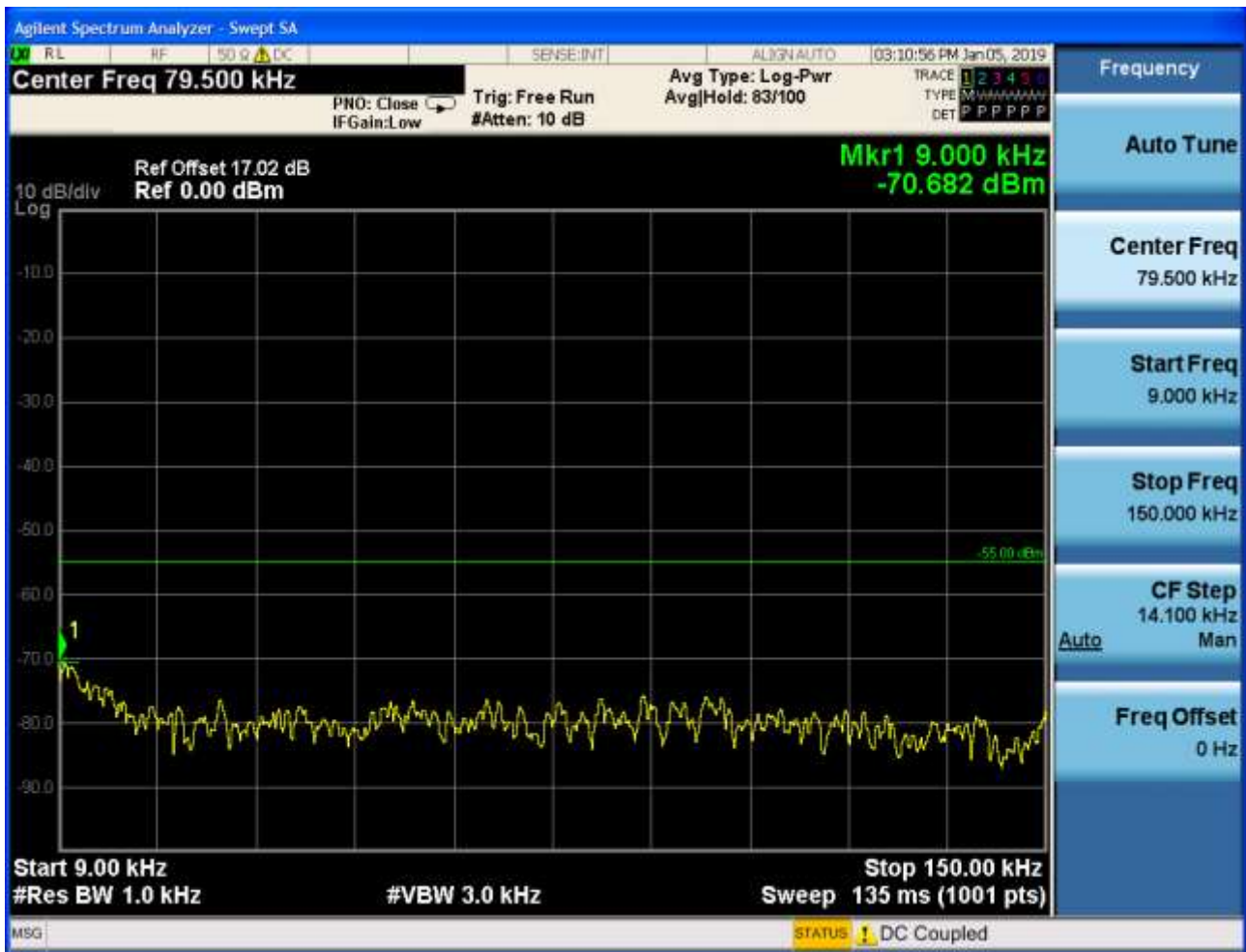


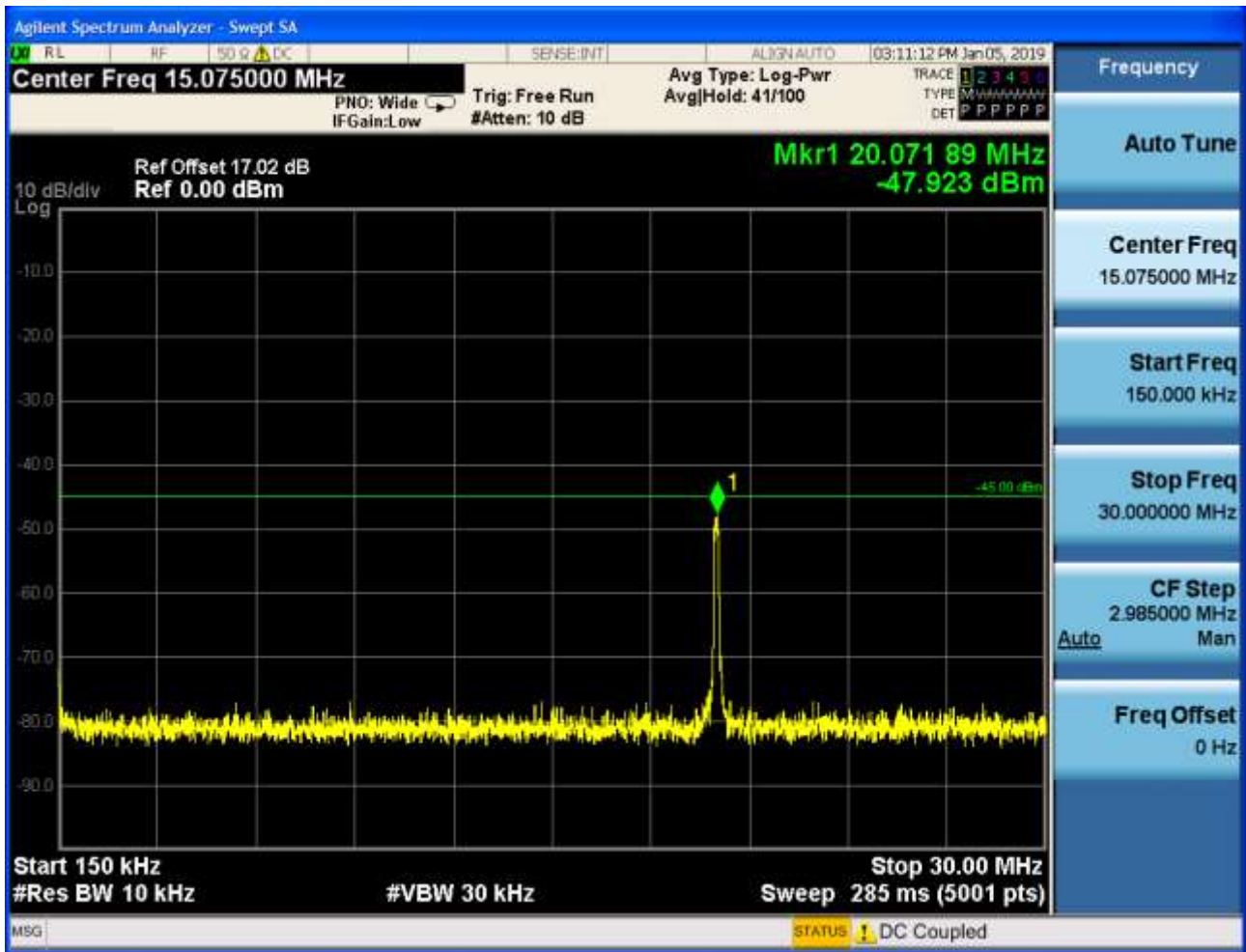




## 6.2.1.1.2.3 Test Channel = HCH

## 6.1.1.1.2.3.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0







## 6.2.1.2 Test Mode = LTE/TM2

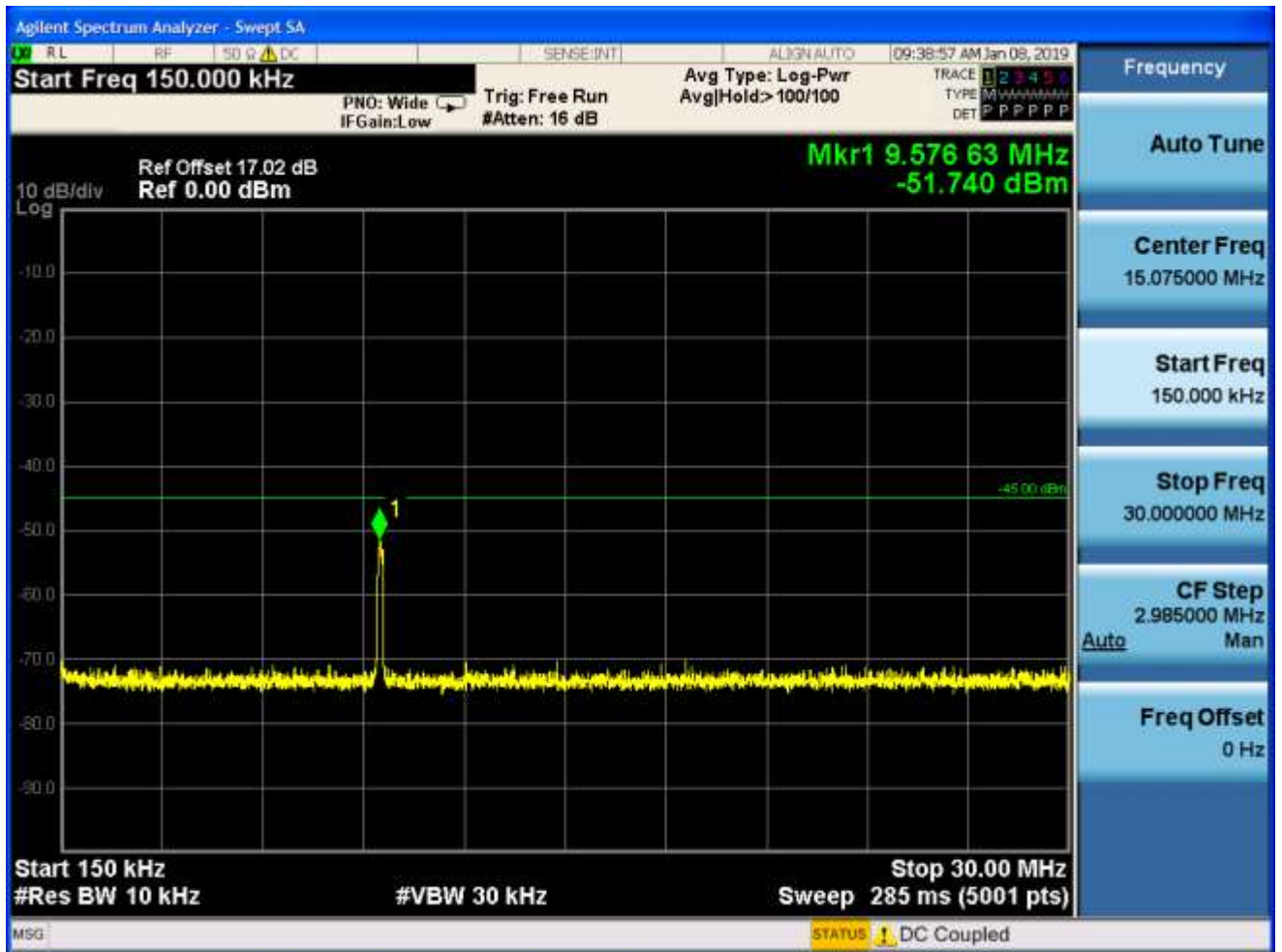
### 6.2.1.2.1 Test Bandwidth = 15MHz+15MHz

#### 6.2.1.2.1.1 Test Channel = LCH

##### 6.1.1.2.1.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0







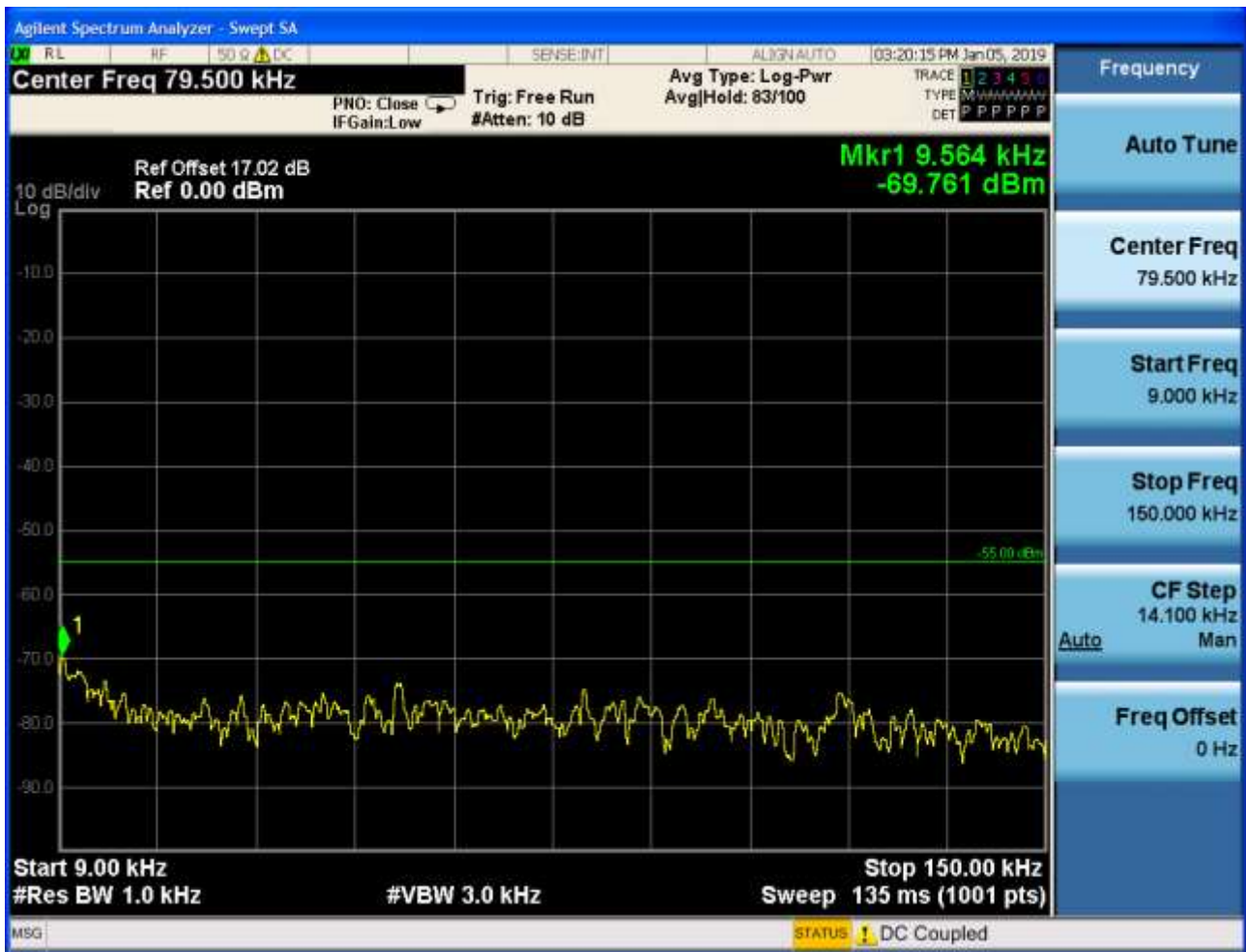


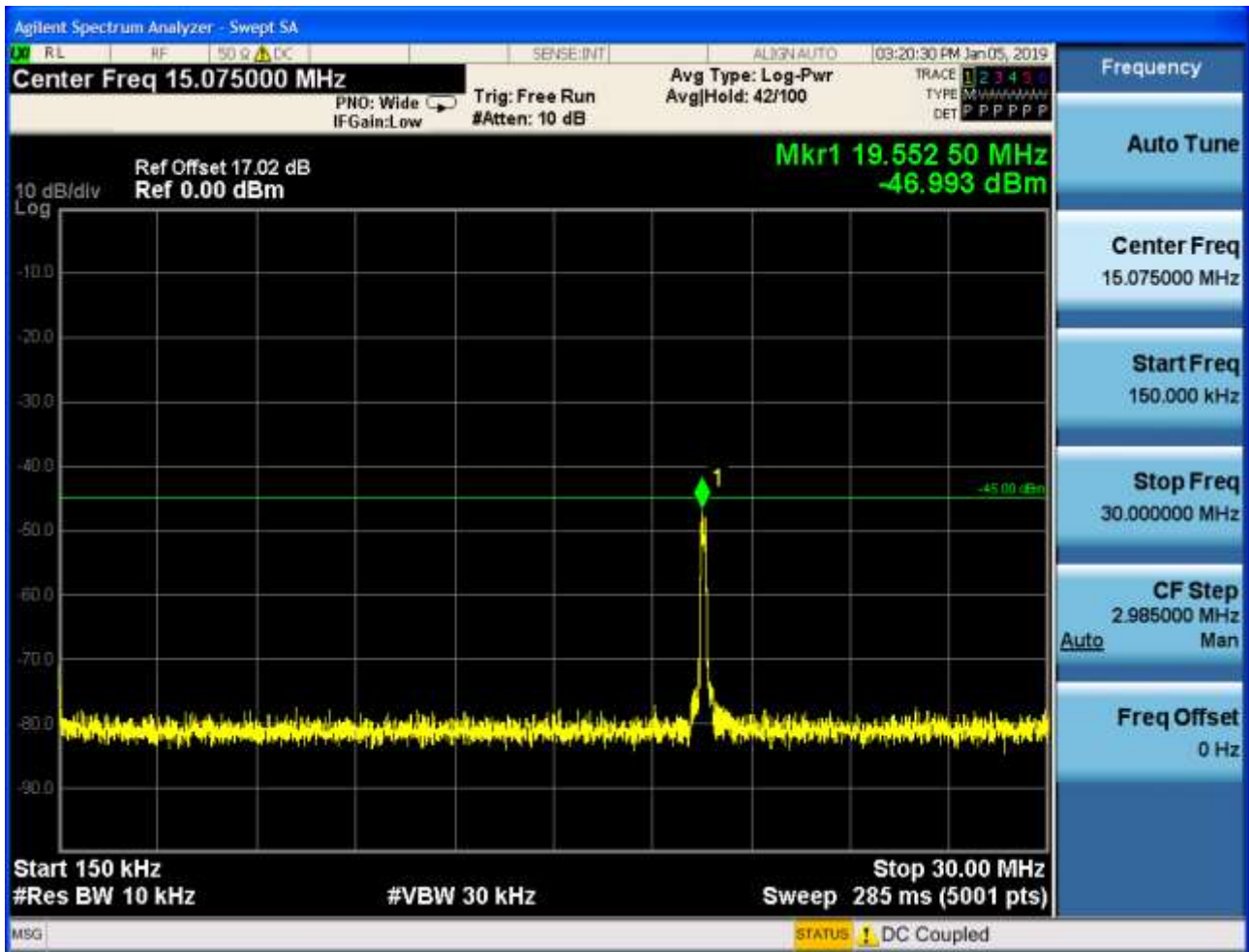




6.2.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 PCC Test RB = 1 # 0 & SCC Test RB = 0



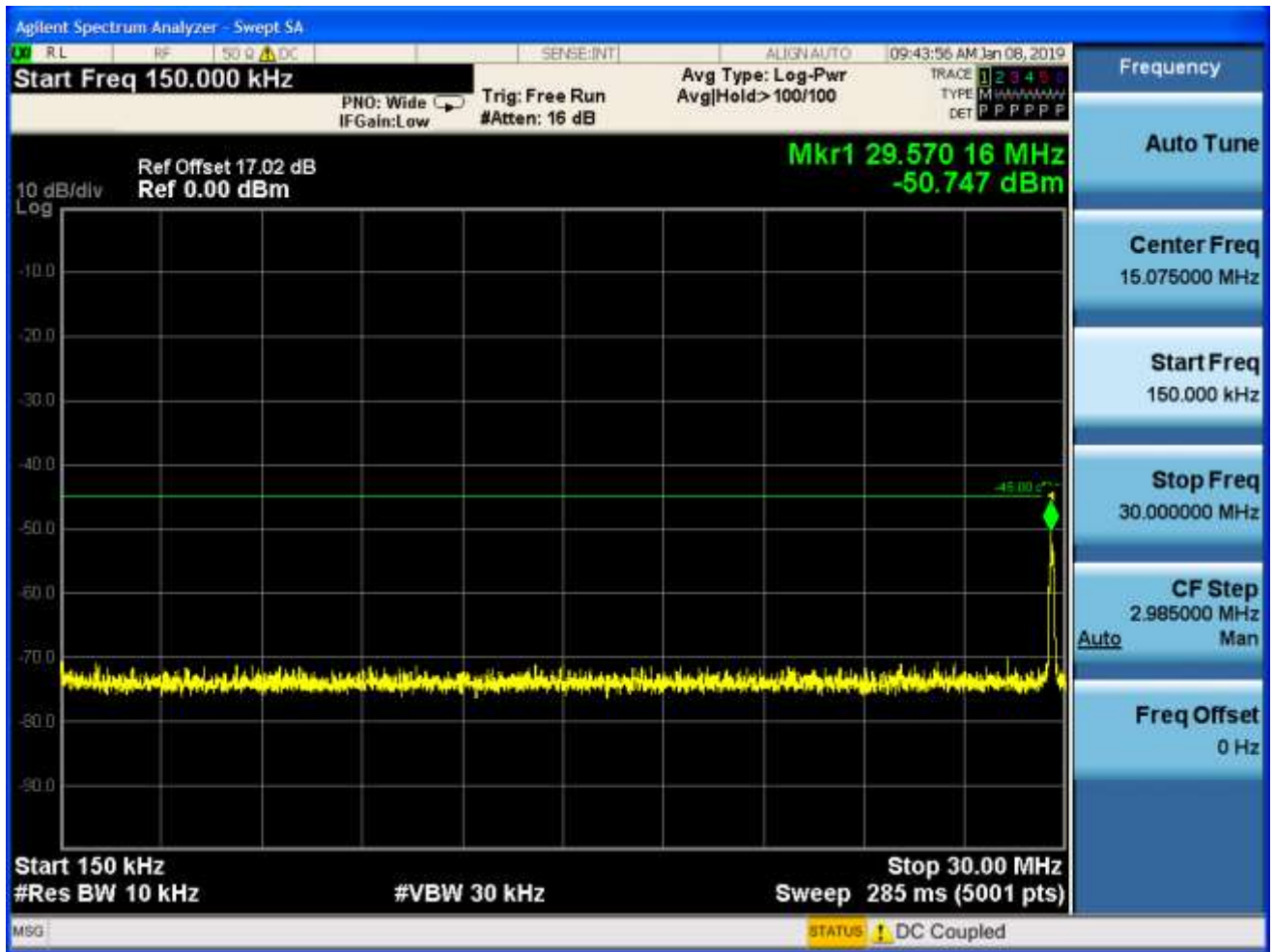




## 6.2.1.2.1.3 Test Channel = HCH

## 6.1.1.2.1.3.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0







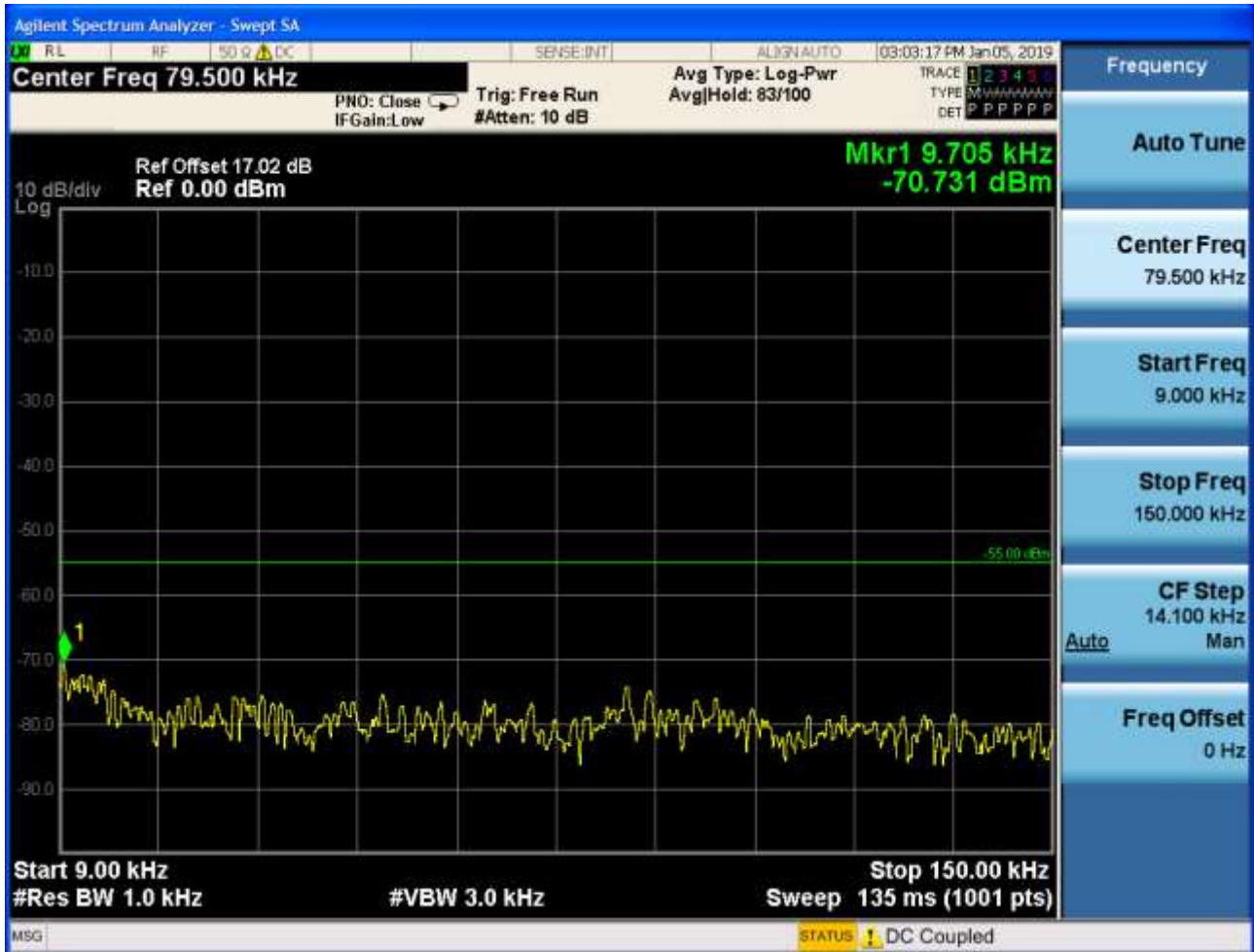


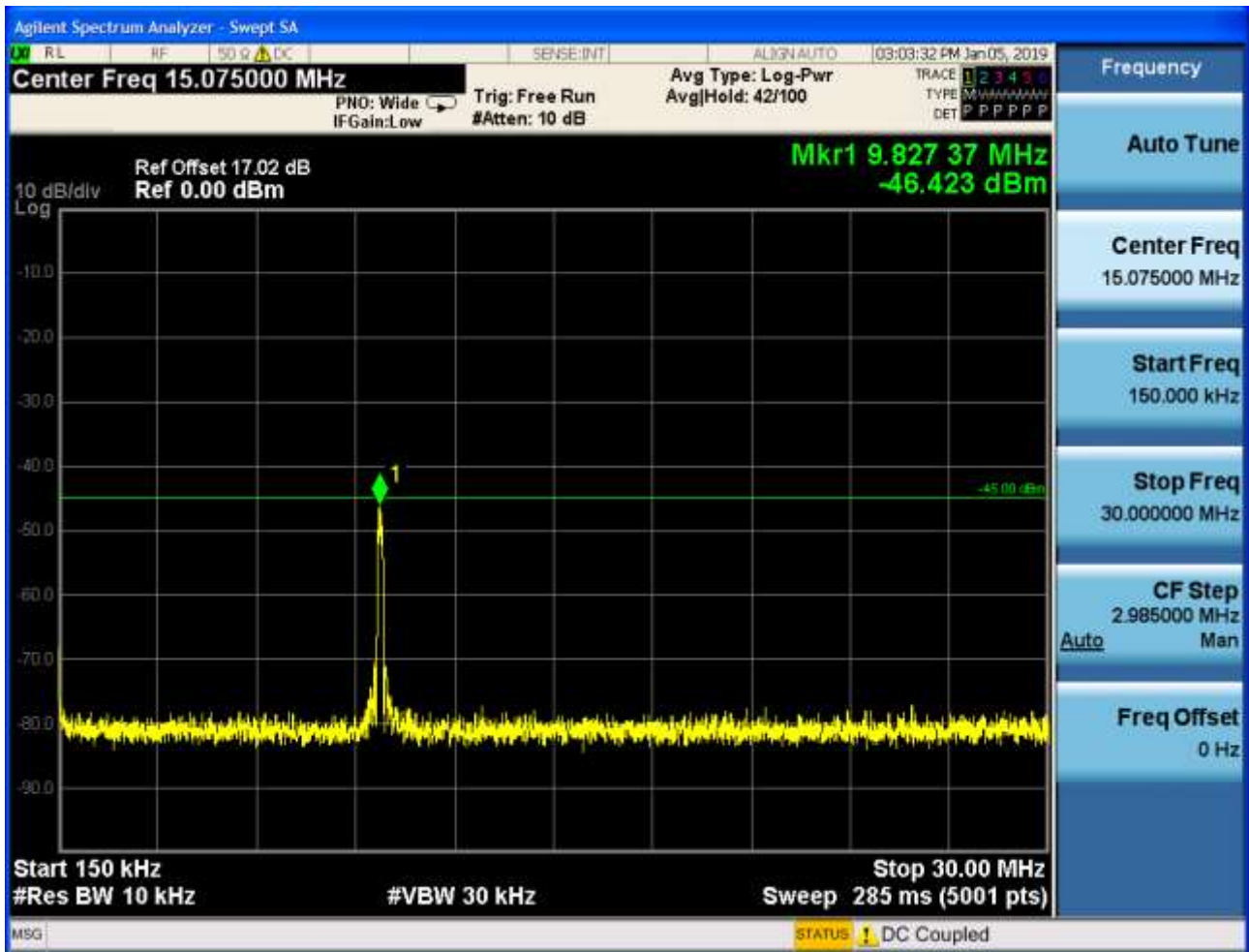


### 6.2.1.2.2 Test Bandwidth = 20MHz+20MHz

#### 6.2.1.2.2.1 Test Channel = LCH

##### 6.1.1.2.2.1.1 PCC Test RB = 1 # 0 & SCC Test RB = 0



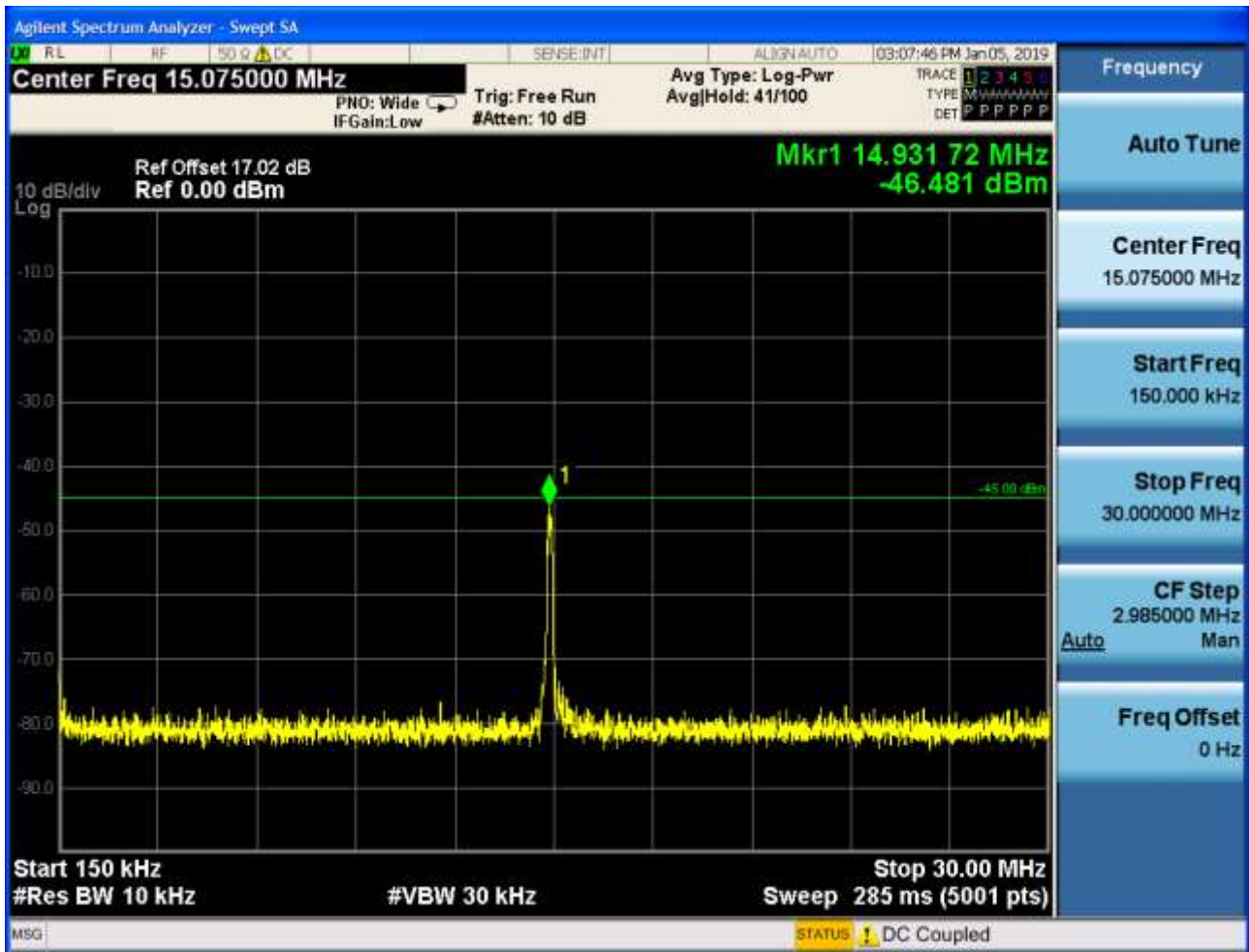




## 6.2.1.2.2 Test Channel = MCH

## 6.1.1.2.2.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0



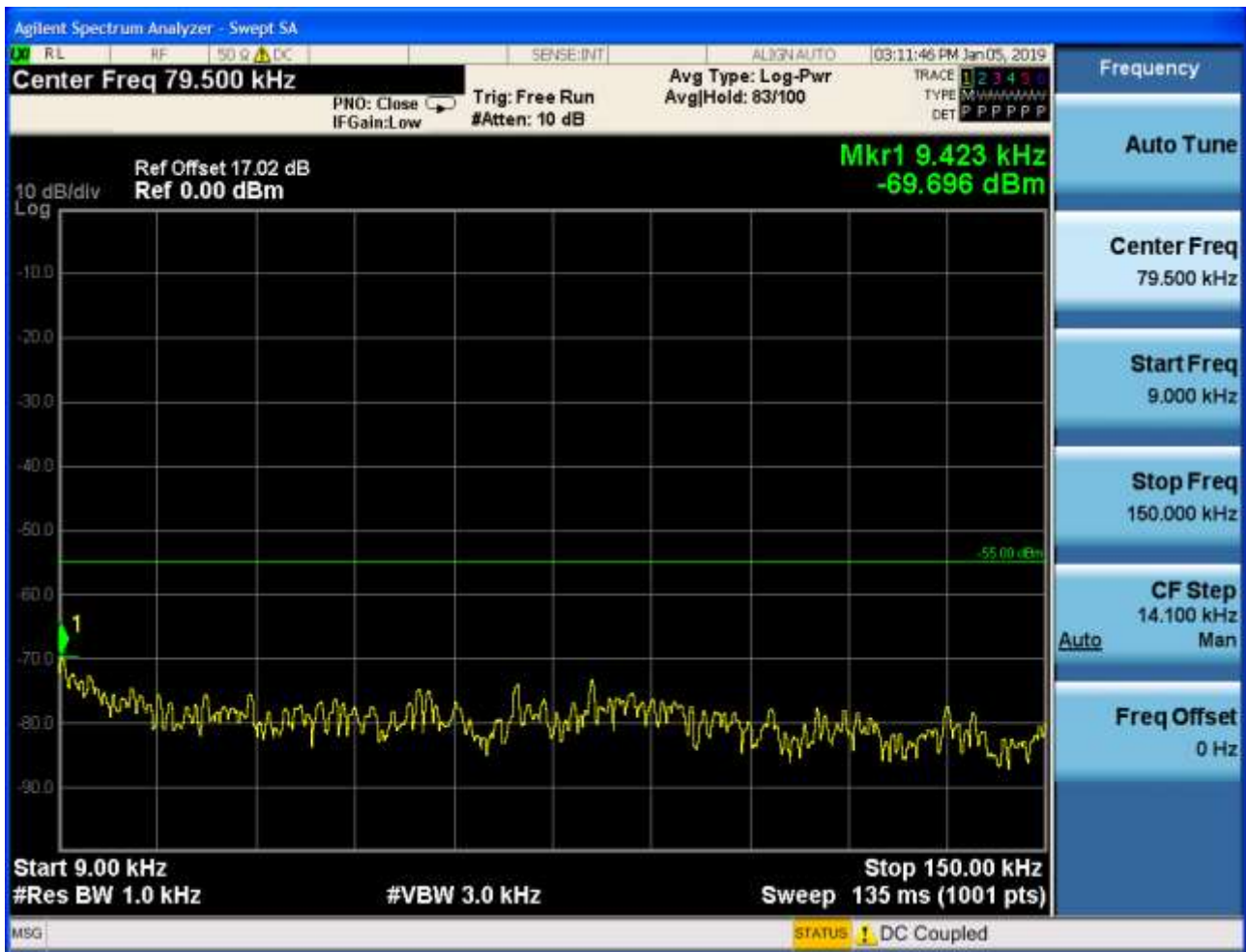




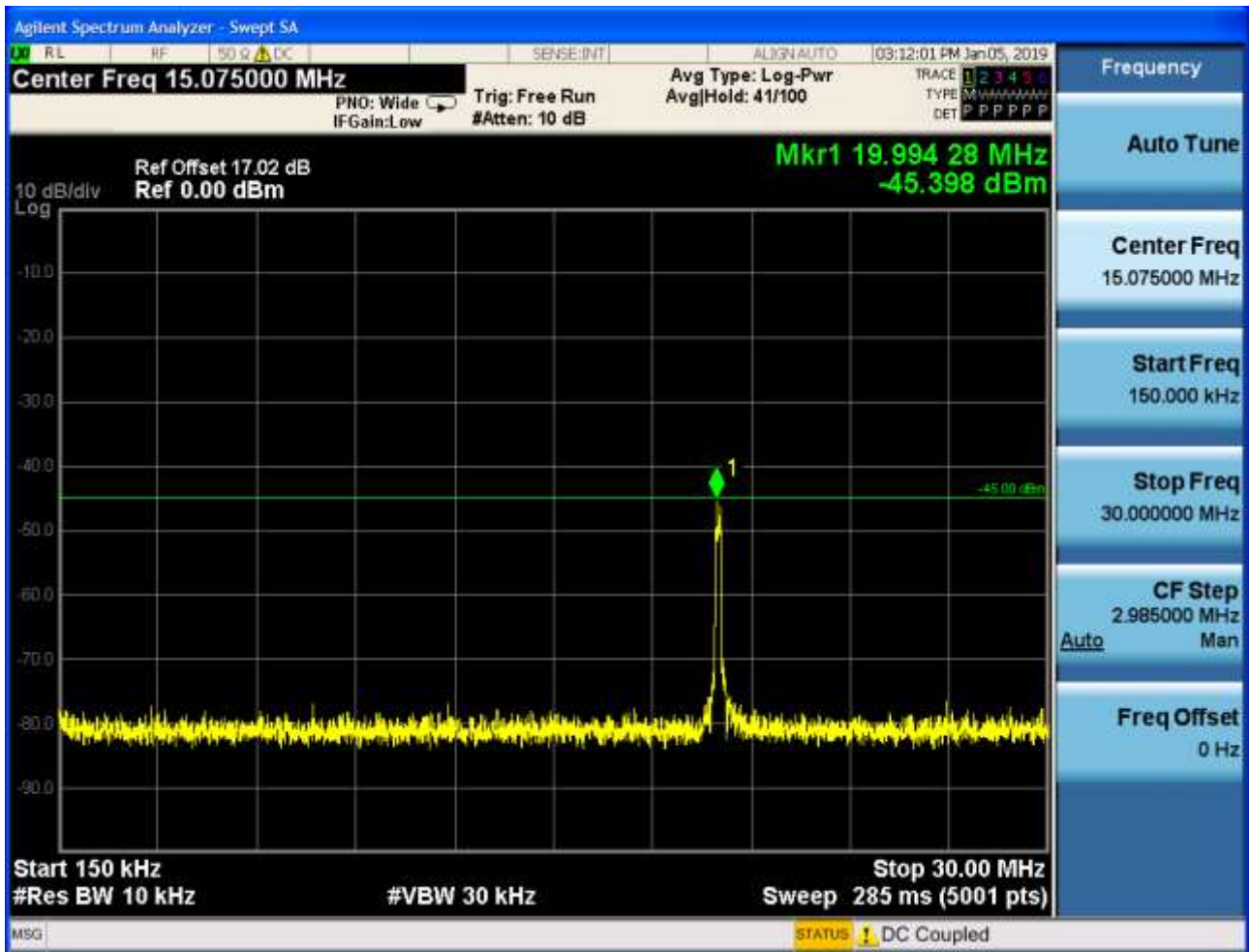


## 6.2.1.2.2.3 Test Channel = HCH

## 6.1.1.2.2.3.1 PCC Test RB = 1 # 0 &amp; SCC Test RB = 0









## 7Appendix\_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

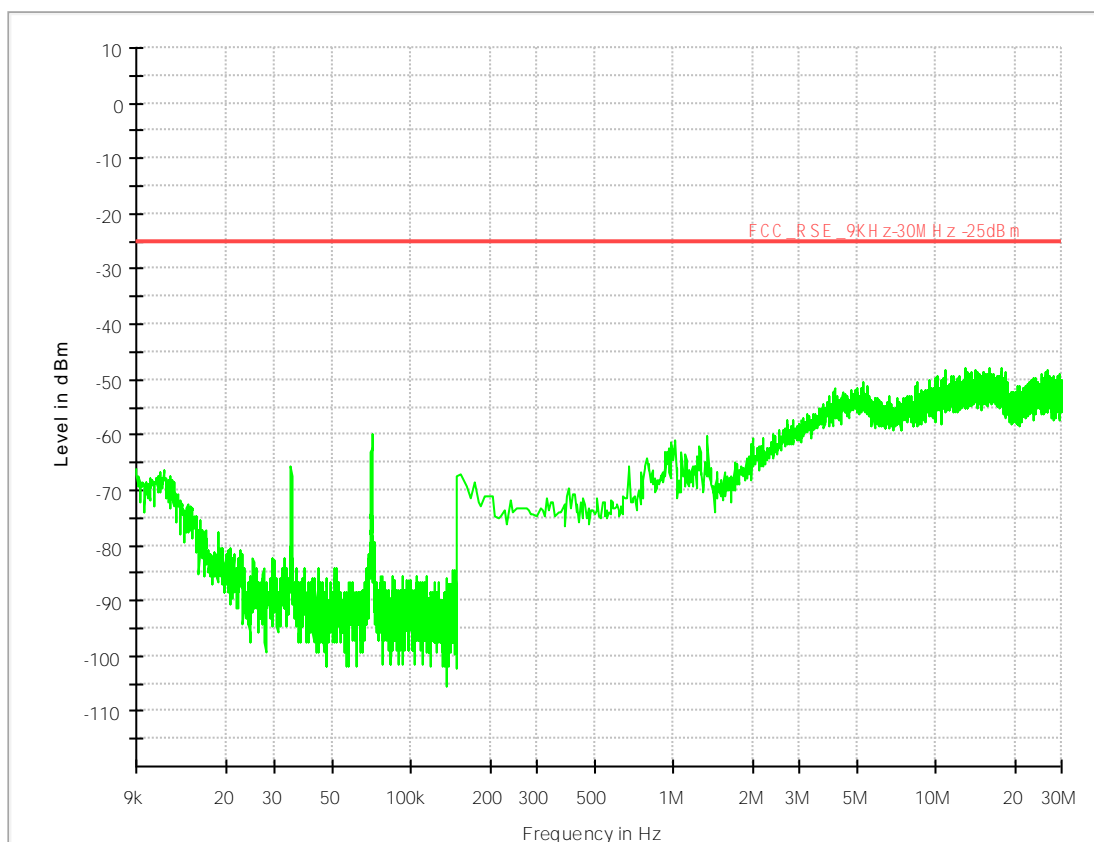
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

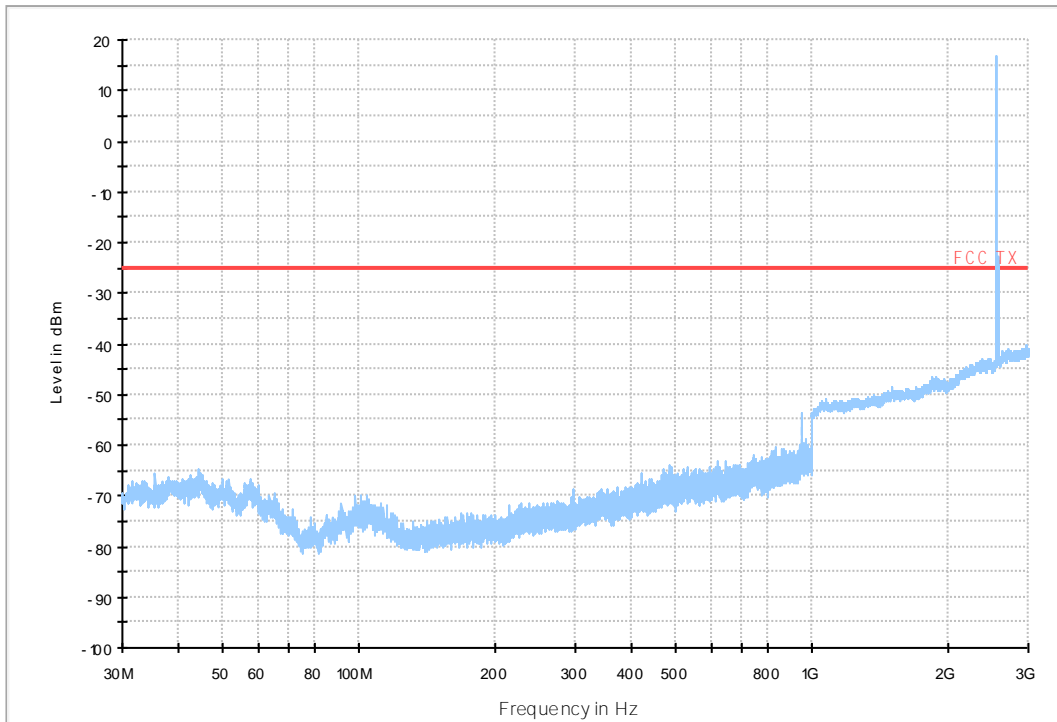
#### 7.1 For LTE

##### 7.1.1 Test Band = CA\_38C\_ANT1

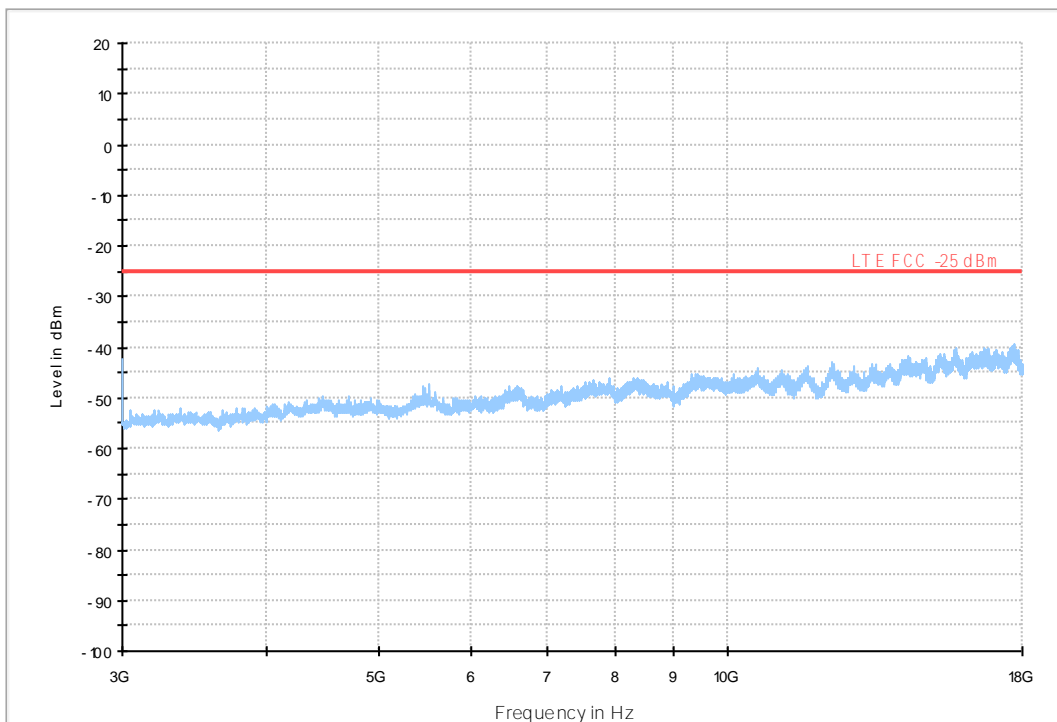
##### 7.1.1.1 Test Bandwidth = 15MHz+15MHz



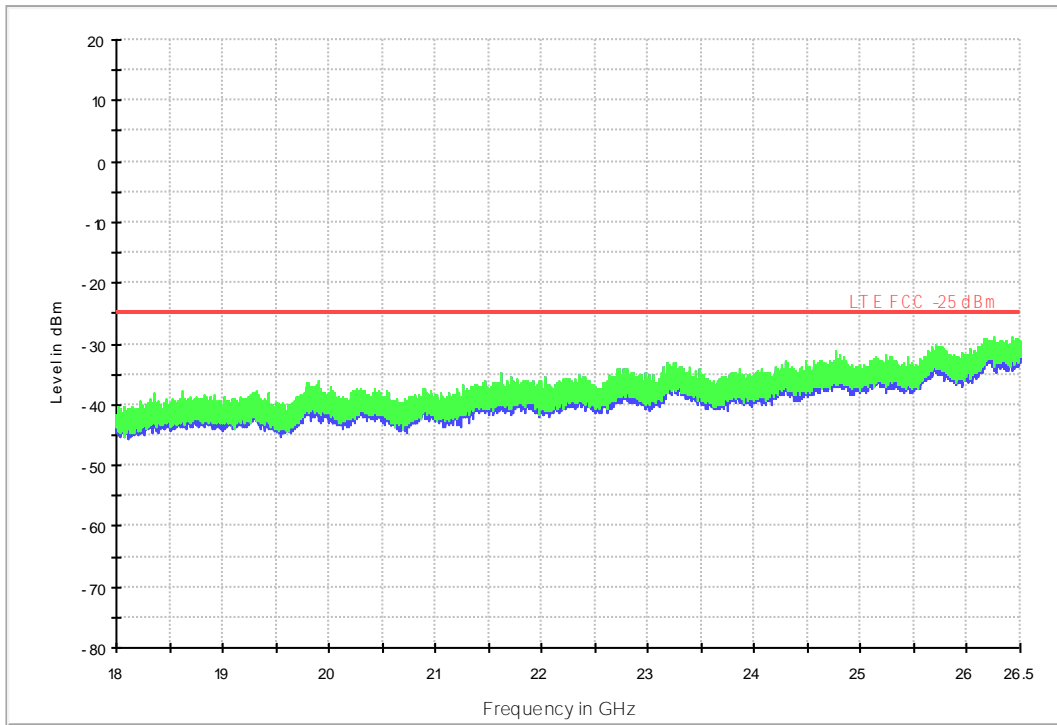
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_L -25dBm limit



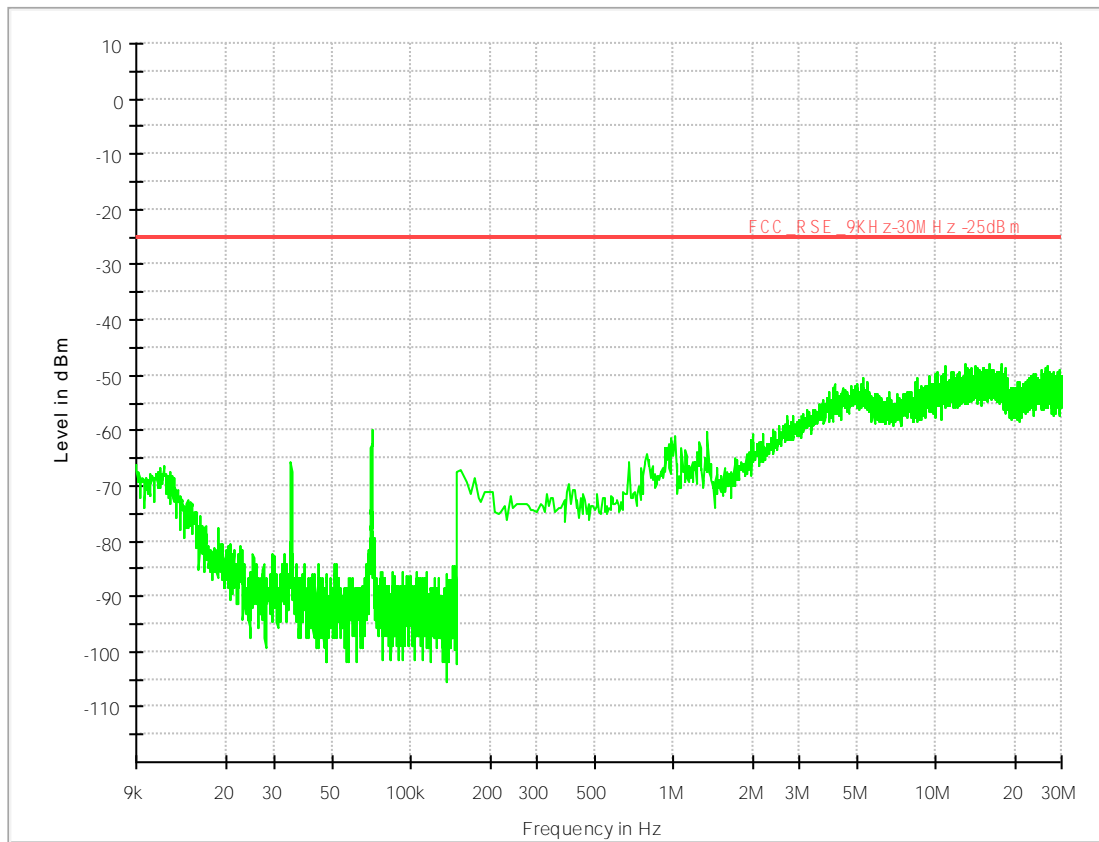
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_H -25dBm limit



18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

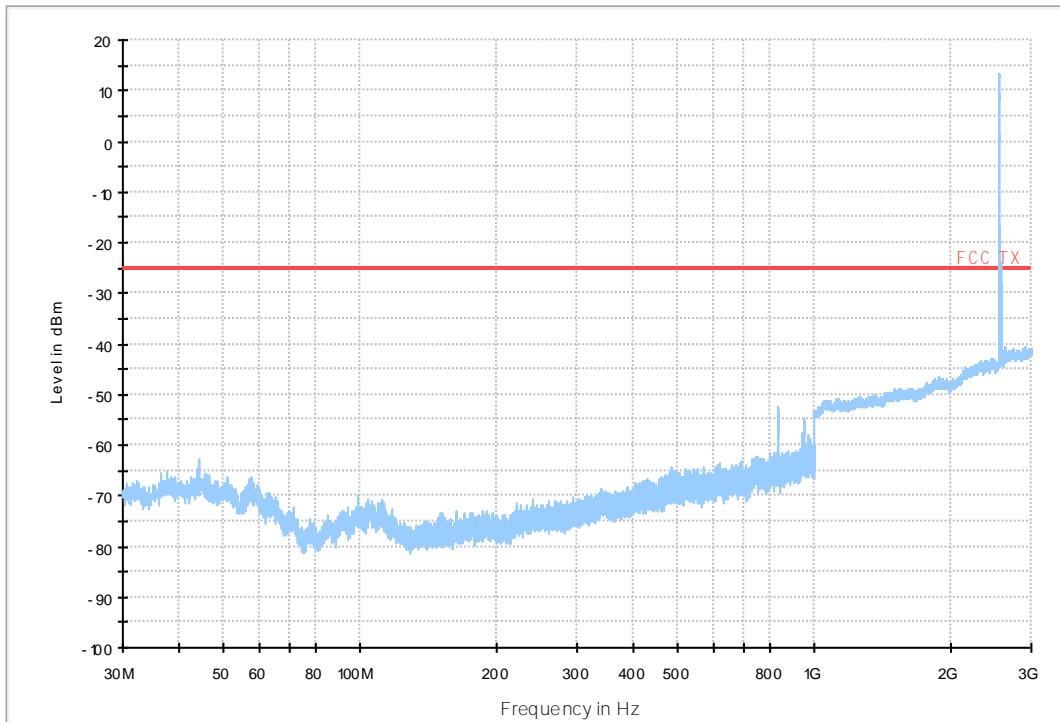


### 7.1.1.2 Test Bandwidth = 20MHz+20MHz

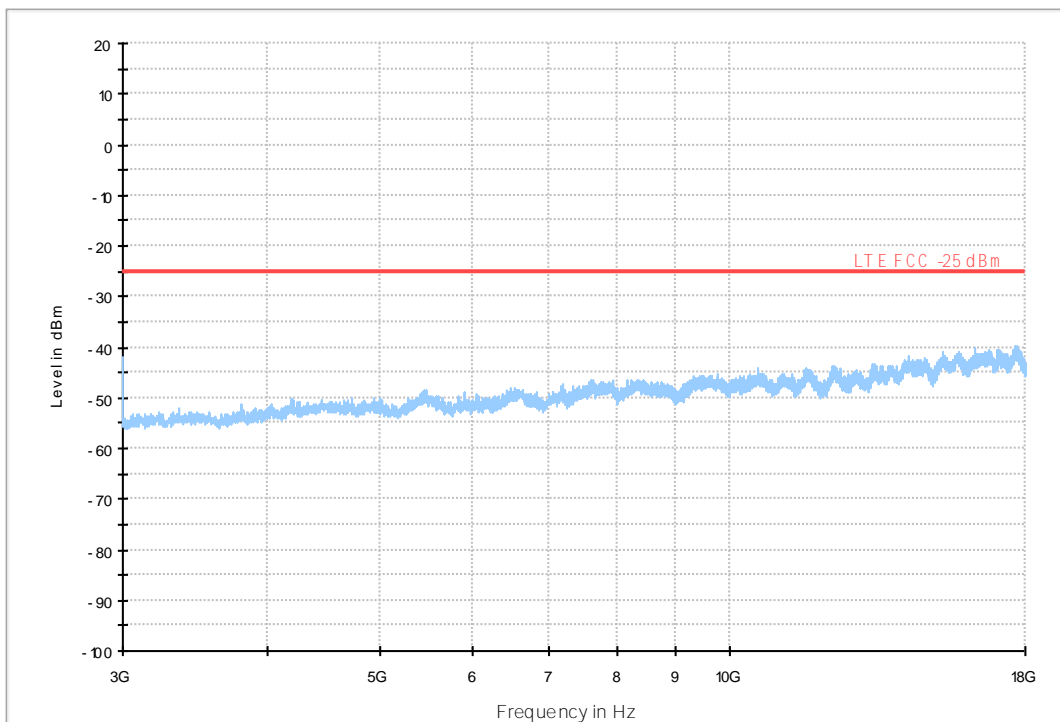




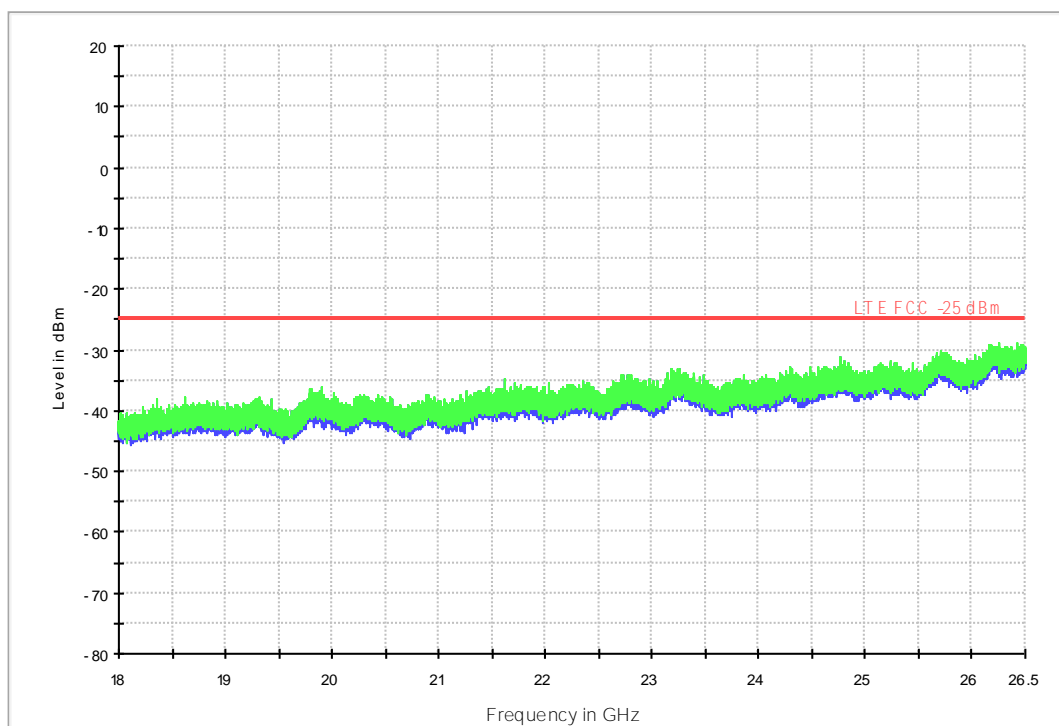
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_L -25dBm limit



LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_H -25dBm limit

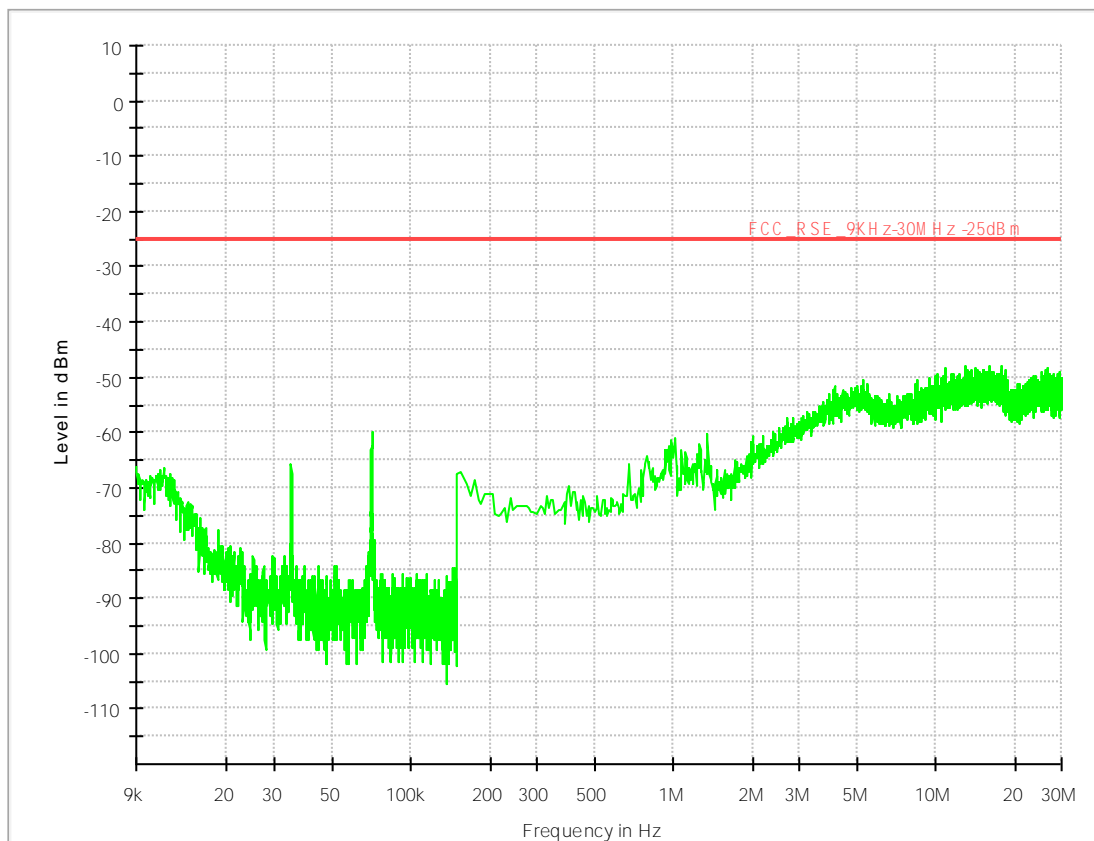


18G- 26.5G RSE-TX-DIRECT OR ABOVE 1.5G PK

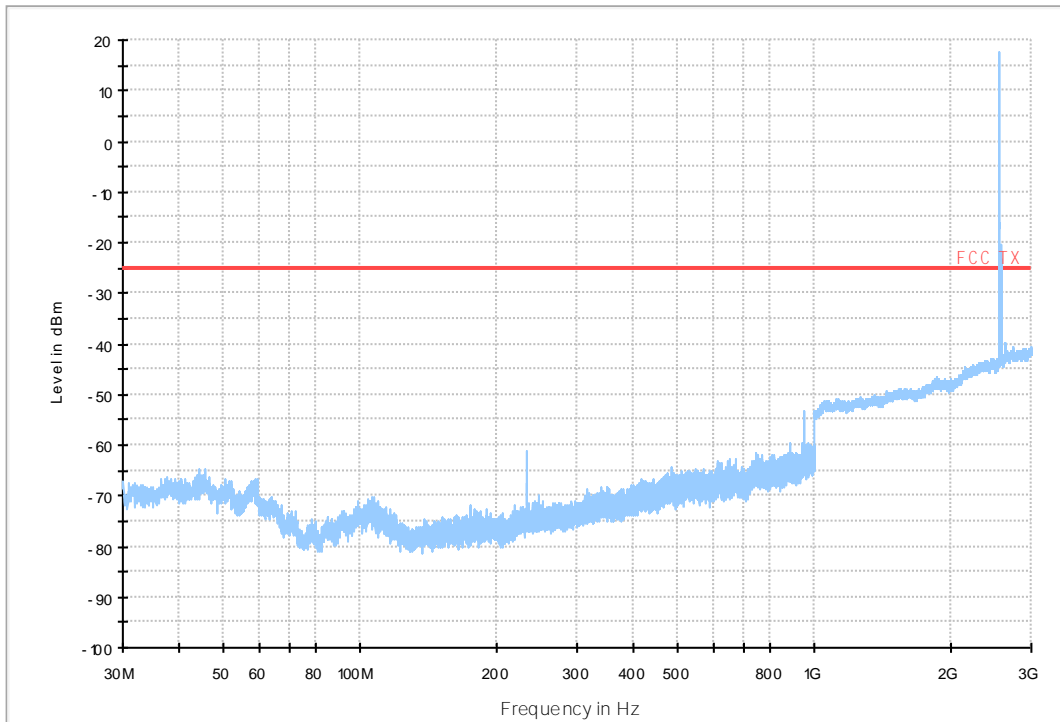


## 7.1.2 Test Band = CA\_38C\_ANT2

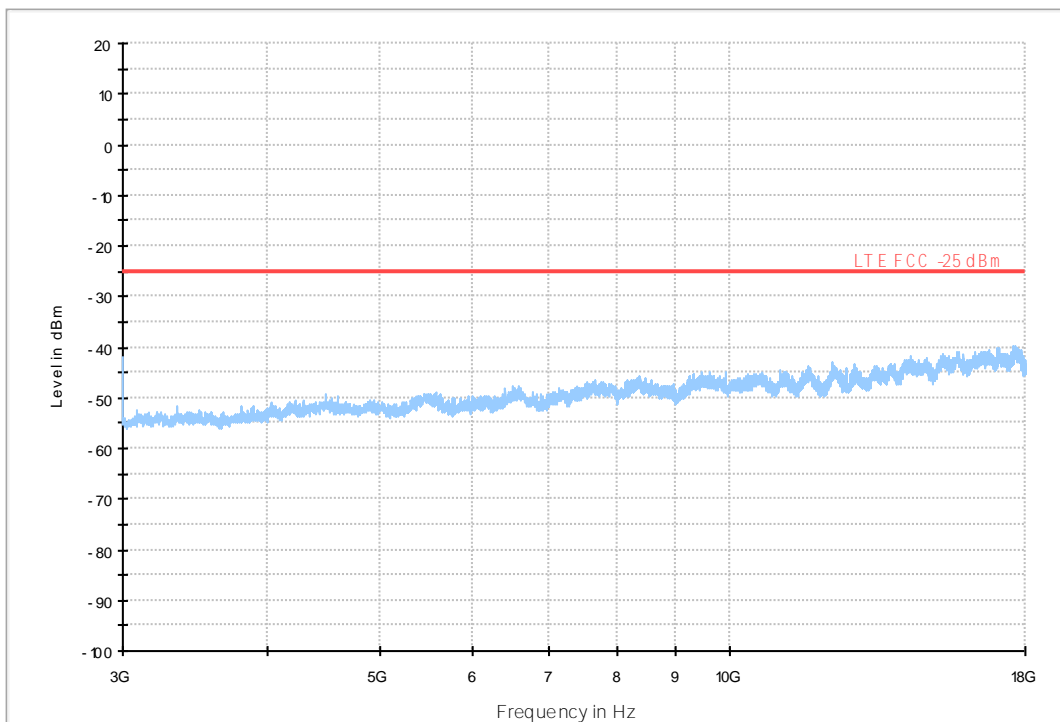
### 7.1.2.1 Test Bandwidth = 15MHz+15MHz



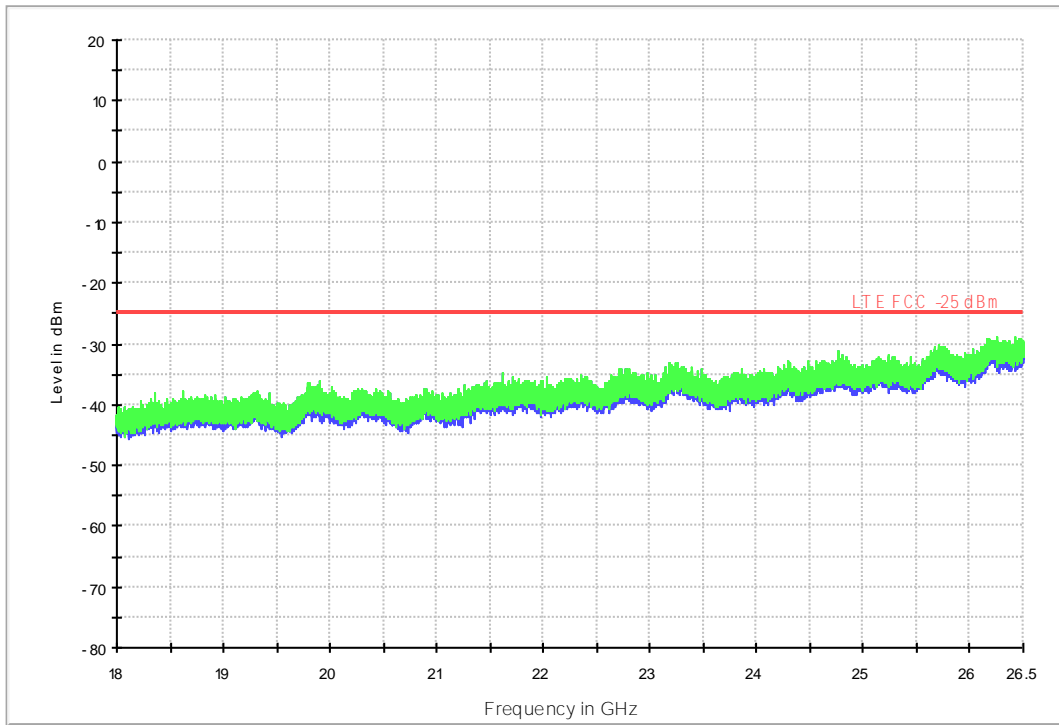
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_L -25dBm limit



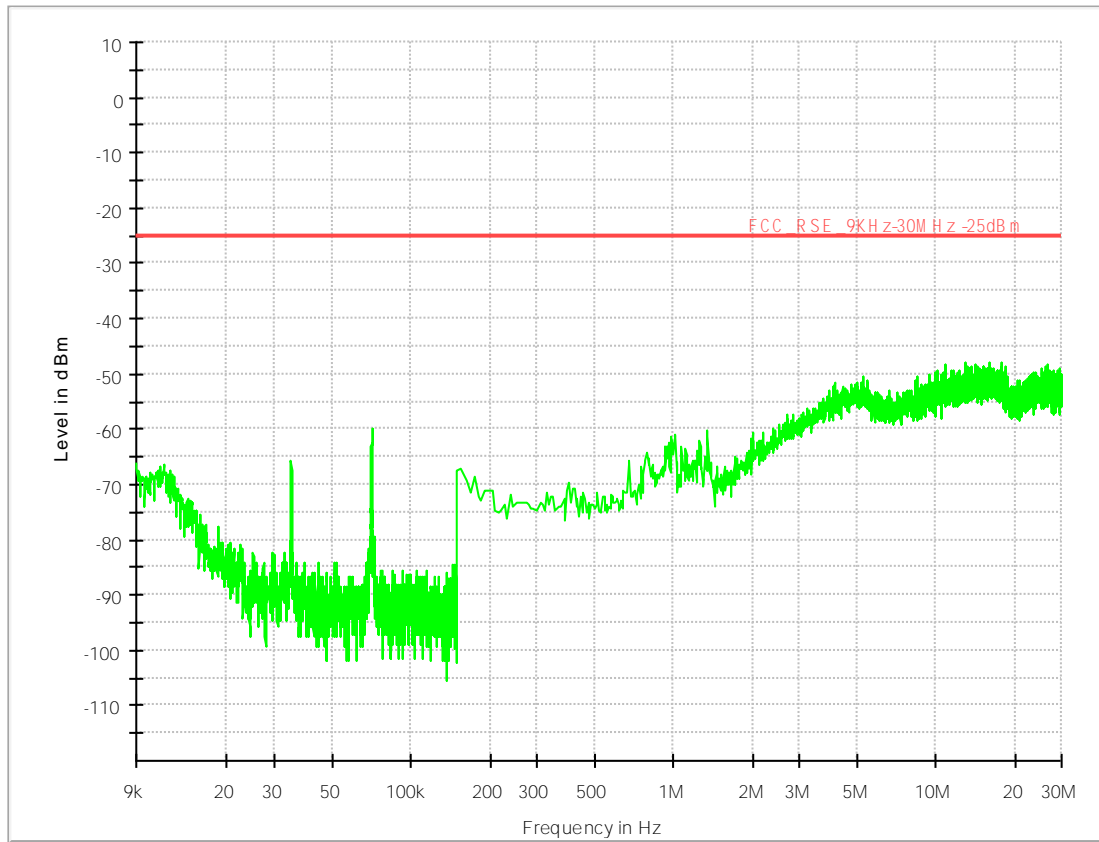
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_H -25dBm limit



18G- 26.5G RSE-TX-DIRECT OR ABOVE 1.5G PK

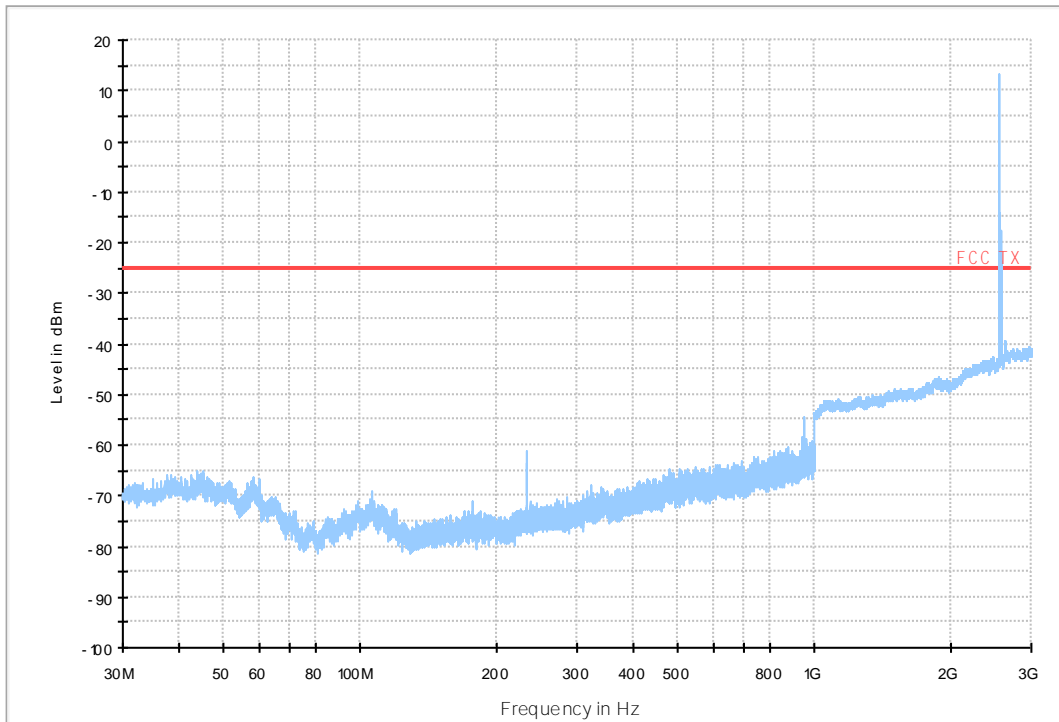


### 7.1.2.2 Test Bandwidth = 20MHz+20MHz

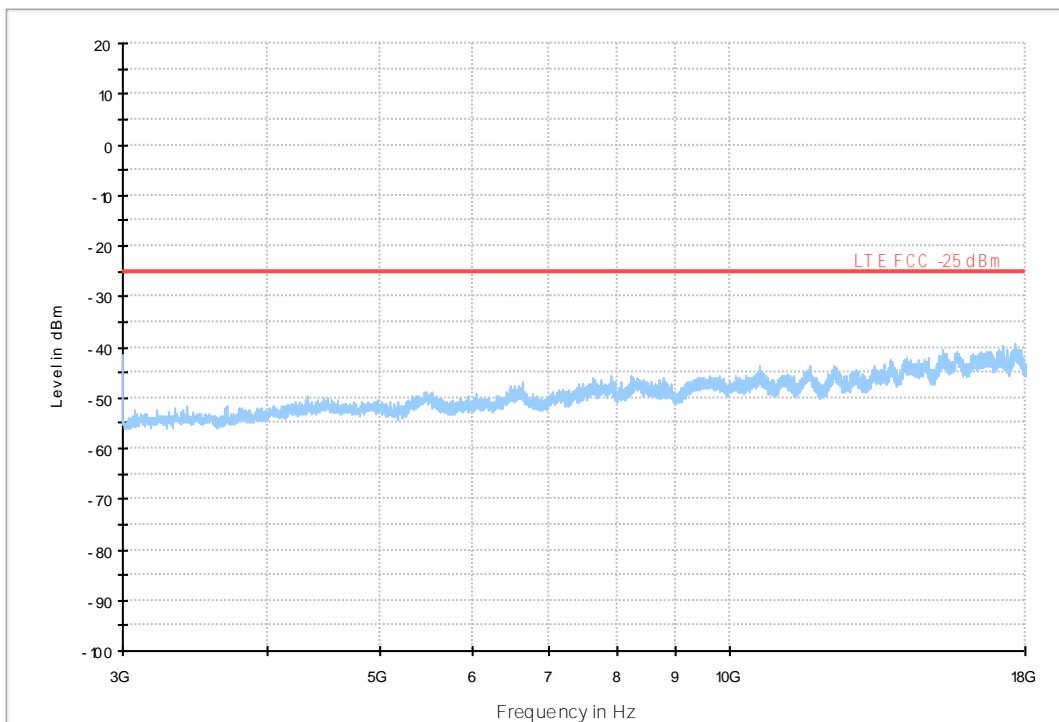




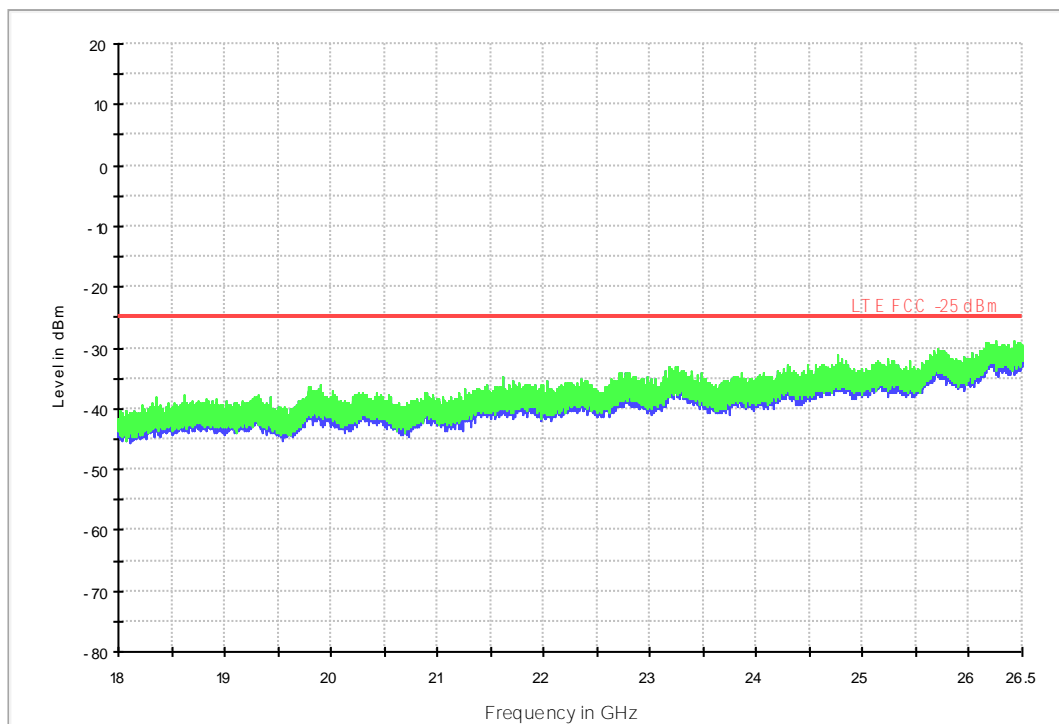
LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_L -25dBm limit



LTE TDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G\_H -25dBm limit



18G-26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK



## 8Appendix\_H: Frequency Stability

### 8.1 For LTE

#### 8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM1	15MHz +15MHz z	LCH	TN	VL	-29.38000	-0.01140	PASS
					VN	-25.63000	-0.00994	PASS
					VH	-24.25000	-0.00941	PASS
			MCH	TN	VL	-29.95000	-0.01157	PASS
					VN	-30.30000	-0.01171	PASS
					VH	-27.34000	-0.01057	PASS
			HCH	TN	VL	-38.55000	-0.01484	PASS
					VN	-28.94000	-0.01114	PASS
					VH	-26.65000	-0.01026	PASS
		20MHz +20MHz z	LCH	TN	VL	-31.70000	-0.01229	PASS
					VN	-31.40000	-0.01217	PASS
					VH	-23.85000	-0.00924	PASS
			MCH	TN	VL	-39.04000	-0.01510	PASS
					VN	-21.77000	-0.00842	PASS
					VH	-35.06000	-0.01356	PASS
	HCH		TN	VL	-33.29000	-0.01285	PASS	
				VN	-27.19000	-0.01050	PASS	
				VH	-29.85000	-0.01152	PASS	
	LTE/TM2	15MHz +15MHz z	LCH	TN	VL	-19.48000	-0.00756	PASS
					VN	-30.43000	-0.01181	PASS
					VH	-26.08000	-0.01012	PASS
			MCH	TN	VL	-27.01000	-0.01044	PASS
					VN	-33.83000	-0.01307	PASS
					VH	-24.39000	-0.00943	PASS
			HCH	TN	VL	-24.93000	-0.00960	PASS
					VN	-31.81000	-0.01225	PASS
					VH	-22.57000	-0.00869	PASS
20MHz +20MHz z		LCH	TN	VL	-22.90000	-0.00888	PASS	
				VN	-32.64000	-0.01265	PASS	
				VH	-29.64000	-0.01149	PASS	
MCH	TN	VL	-27.04000	-0.01046	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-32.16000	-0.01244	PASS
					VH	-28.91000	-0.01118	PASS
			HCH		VL	-26.05000	-0.01006	PASS
					VN	-31.84000	-0.01229	PASS
					VH	-29.21000	-0.01128	PASS

**8.1.2 Frequency Error vs. Temperature:**

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	LTE/TM1	15MHz+15MHz	LCH	VN	-30	-23.65000	-0.00918	PASS
					-20	-23.80000	-0.00923	PASS
					-10	-20.28000	-0.00787	PASS
					0	-27.92000	-0.01083	PASS
					10	-24.63000	-0.00956	PASS
					20	-25.63000	-0.00994	PASS
					30	-26.58000	-0.01031	PASS
					40	-25.88000	-0.01004	PASS
			MCH	VN	50	-25.51000	-0.00990	PASS
					-30	-22.24000	-0.00860	PASS
					-20	-29.33000	-0.01134	PASS
					-10	-29.37000	-0.01135	PASS
					0	-29.07000	-0.01123	PASS
					10	-25.32000	-0.00979	PASS
					20	-30.30000	-0.01171	PASS
					30	-28.32000	-0.01094	PASS
			HCH	VN	40	-28.00000	-0.01082	PASS
					50	-27.84000	-0.01076	PASS
					-30	-29.45000	-0.01134	PASS
					-20	-33.26000	-0.01280	PASS
					-10	-32.53000	-0.01252	PASS
					0	-26.64000	-0.01026	PASS
					10	-30.66000	-0.01180	PASS
					20	-28.94000	-0.01114	PASS
30	-28.21000	-0.01086	PASS					
40	-28.51000	-0.01098	PASS					
50	-24.39000	-0.00939	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20MHz+20MHz	LCH	VN	-30	-27.78000	-0.01077	PASS
					-20	-24.12000	-0.00935	PASS
					-10	-27.47000	-0.01065	PASS
					0	-26.02000	-0.01009	PASS
					10	-28.34000	-0.01098	PASS
					20	-31.40000	-0.01217	PASS
					30	-25.38000	-0.00984	PASS
					40	-25.76000	-0.00998	PASS
					50	-20.20000	-0.00783	PASS
			MCH	VN	-30	-26.76000	-0.01035	PASS
					-20	-25.06000	-0.00969	PASS
					-10	-30.28000	-0.01171	PASS
					0	-23.59000	-0.00913	PASS
					10	-26.45000	-0.01023	PASS
					20	-21.77000	-0.00842	PASS
					30	-28.75000	-0.01112	PASS
					40	-26.39000	-0.01021	PASS
					50	-22.19000	-0.00858	PASS
			HCH	VN	-30	-30.83000	-0.01190	PASS
					-20	-26.41000	-0.01020	PASS
					-10	-26.25000	-0.01013	PASS
					0	-24.89000	-0.00961	PASS
					10	-27.41000	-0.01058	PASS
					20	-27.19000	-0.01050	PASS
	30	-22.50000			-0.00869	PASS		
	40	-24.00000			-0.00927	PASS		
	50	-26.81000			-0.01035	PASS		
	LTE/TM2	15MHz+15MHz	LCH	VN	-30	-25.58000	-0.00992	PASS
					-20	-30.31000	-0.01176	PASS
					-10	-28.92000	-0.01122	PASS
					0	-31.50000	-0.01222	PASS
					10	-34.52000	-0.01339	PASS
20					-30.43000	-0.01181	PASS	
30					-34.30000	-0.01331	PASS	
40					-31.27000	-0.01213	PASS	
50					-32.14000	-0.01247	PASS	
MCH			VN	-30	-27.58000	-0.01066	PASS	
				-20	-31.79000	-0.01229	PASS	
				-10	-32.03000	-0.01238	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					0	-32.09000	-0.01240	PASS			
					10	-32.99000	-0.01275	PASS			
					20	-33.83000	-0.01307	PASS			
					30	-34.40000	-0.01329	PASS			
					40	-29.64000	-0.01146	PASS			
					50	-30.33000	-0.01172	PASS			
			HCH	VN	-30	-35.31000	-0.01359	PASS			
					-20	-34.75000	-0.01338	PASS			
					-10	-33.85000	-0.01303	PASS			
					0	-32.72000	-0.01260	PASS			
					10	-34.28000	-0.01320	PASS			
					20	-31.81000	-0.01225	PASS			
			LCH	VN	30	-34.82000	-0.01341	PASS			
					40	-34.20000	-0.01317	PASS			
					50	-34.13000	-0.01314	PASS			
					-30	-33.87000	-0.01313	PASS			
					-20	-30.14000	-0.01168	PASS			
					-10	-32.46000	-0.01258	PASS			
		20MHz+20MHz	z	MCH	VN	0	-32.72000	-0.01268	PASS		
						10	-35.58000	-0.01379	PASS		
						20	-32.64000	-0.01265	PASS		
						30	-37.31000	-0.01446	PASS		
						40	-32.40000	-0.01256	PASS		
						50	-31.43000	-0.01218	PASS		
				HCH	VN	-30	-28.87000	-0.01117	PASS		
						-20	-31.29000	-0.01210	PASS		
						-10	-35.36000	-0.01368	PASS		
						0	-32.42000	-0.01254	PASS		
						10	-33.49000	-0.01296	PASS		
						20	-32.16000	-0.01244	PASS		
								30	-30.44000	-0.01178	PASS
								40	-34.93000	-0.01351	PASS
								50	-32.13000	-0.01243	PASS
								-30	-30.66000	-0.01184	PASS
								-20	-35.38000	-0.01366	PASS
								-10	-28.92000	-0.01117	PASS
				0	-33.14000	-0.01279	PASS				
				10	-31.07000	-0.01200	PASS				
				20	-31.84000	-0.01229	PASS				





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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-32.73000	-0.01264	PASS
					40	-32.73000	-0.01264	PASS
					50	-41.31000	-0.01595	PASS

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END